

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 315	09-04135-00-BR	VERMILION	29	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO.	91525	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	PLAN AND PROFILE
5-12.	BRIDGE PLANS
13.	BORINGS
14-29.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701901-05	TRAFFIC CONTROL DEVICES
725001	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

UTILITIES

AMEREN ILLINOIS
1155 E VORHEES ST
DANVILLE IL 61832
ATTN: TYLER RODEFFER
217-431-9726

FRONTIER COMMUNICATIONS
300 MAPLEWOOD DRIVE
RANTOUL, IL 61846

PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM – BRIDGE

PROJECT BROS-0183(320)

SECTION 09-04135-00-BR

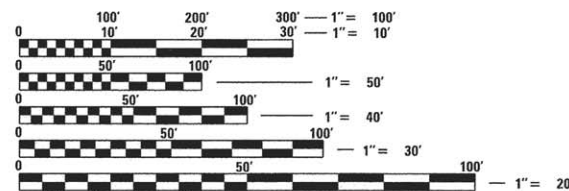
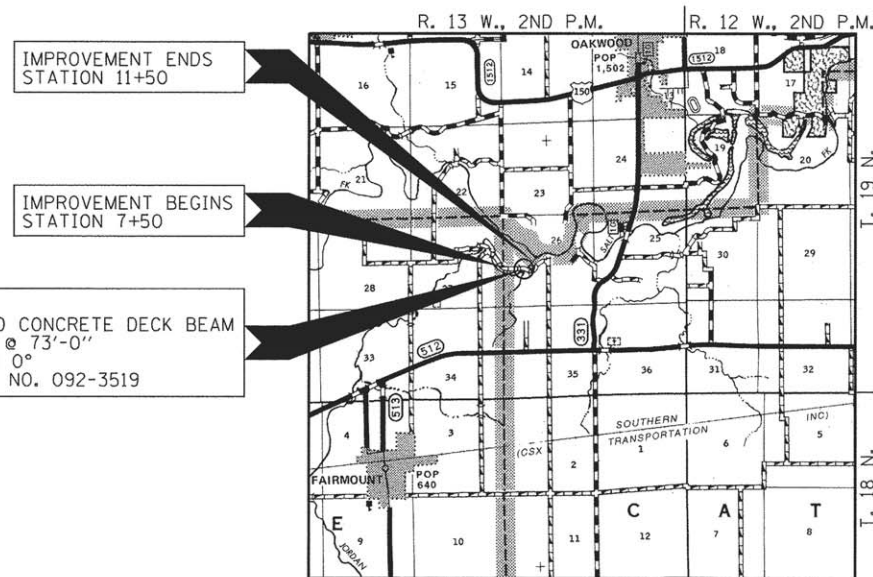
CATLIN ROAD DISTRICT

VERMILION COUNTY

T.R. 315

PROPOSED STRUCTURE NO. 092-3519

JOB NO. C-95-312-15



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (0-250)
DESIGN SPEED: 20 MPH
DESIGN TRAFFIC: 50 ADT (2014)

LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 400 FEET = 0.076 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED April 15, 2016
Douglas R. Stuber
COUNTY ENGINEER

APPROVED April 15, 2016
Bob Handley
TOWNSHIP COMMISSIONER

PASSED APRIL 27, 2016
B. K. Ziegler
DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review April 19, 2016
David C. Johnson
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

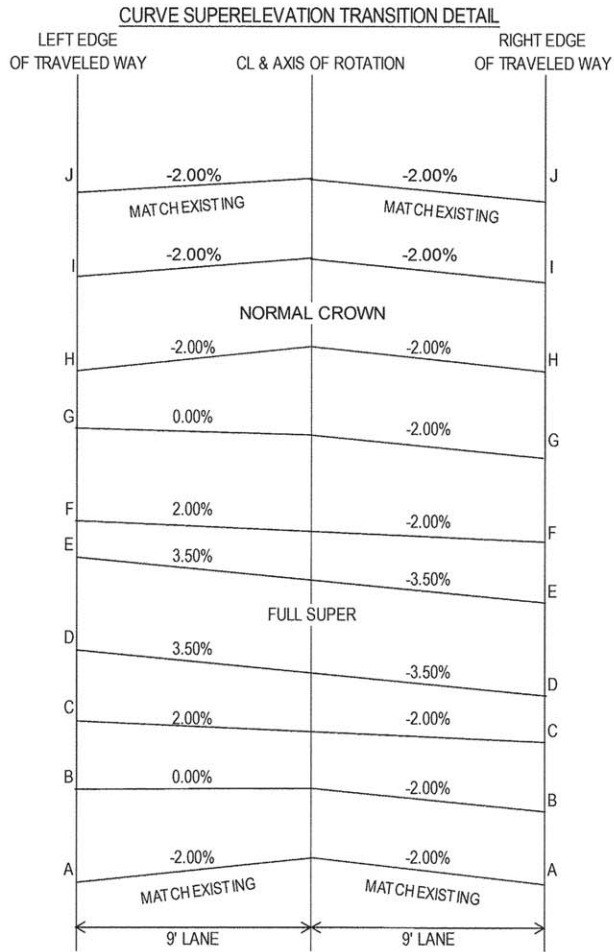


HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION
			TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	380
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	200
20200100	EARTH EXCAVATION	CU YD	290
20300100	CHANNEL EXCAVATION	CU YD	275
20400800	FURNISHED EXCAVATION	CU YD	350
25100630	EROSION CONTROL BLANKET	SQ YD	400
28000305	TEMPORARY DITCH CHECKS	FOOT	37
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	510
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	400
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	75
50300225	CONCRETE STRUCTURES	CU YD	24.6
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1971
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3380
50900205	STEEL RAILING, TYPE S1	FOOT	153
51201600	FURNISHING STEEL PILES HP12X53	FOOT	120
51500100	NAME PLATES	EACH	1
58700300	CONCRETE SEALER	SQ FT	144
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	60
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
XX004566	CONCRETE CUT-OFF WALL	CU YD	6.4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0065000	SETTING PILES IN ROCK	EACH	8

SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS



CURVE SUPERELEVATION TRANSITION			
LOCATION	STATION	CROSS SLOPE	
		LEFT	RIGHT
A	7+50.00	-2.00%	-2.00%
B	7+74.30	0.00%	-2.00%
C	8+00.10	2.00%	-2.00%
D	8+16.80	3.50%	-3.50%
FULL SUPER			
E	8+94.10	3.50%	-3.50%
F	9+10.80	2.00%	-2.00%
G	9+36.50	0.00%	-2.00%
H	9+60.80	-2.00%	-2.00%
NORMAL CROWN			
I	10+40.00	-2.00%	-2.00%
J	11+50.00	-2.00%	-2.00%

** THEORETICAL GRADE SHOWN. MATCH EXISTING CROSS SLOPES AT THESE STATIONS

EROSION CONTROL SCHEDULE		
LOCATION	TEMPORARY	EROSION
	DITCH CHECKS	CONTROL BLANKET
	28000305	25100630
	FOOT	SQ YD
TR 315		
RT. STA 9+50	11	
LT. STA 9+50	11	
RT. STA 10+40	15	
RT. STA 10+75 TO RT. STA 11+50		400
TOTAL	37	400

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING OF THIS SECTION.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING PAVEMENT WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE	1.80 TON/CU YD
STONE DUMPED RIPRAP	1.75 TON/CU YD
- THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.5 ACRES
- COMMITMENTS:
 1) TREE REMOVAL IS PROHIBITED BETWEEN APRIL 1 AND SEPTEMBER 30.

GUARDRAIL SCHEDULE

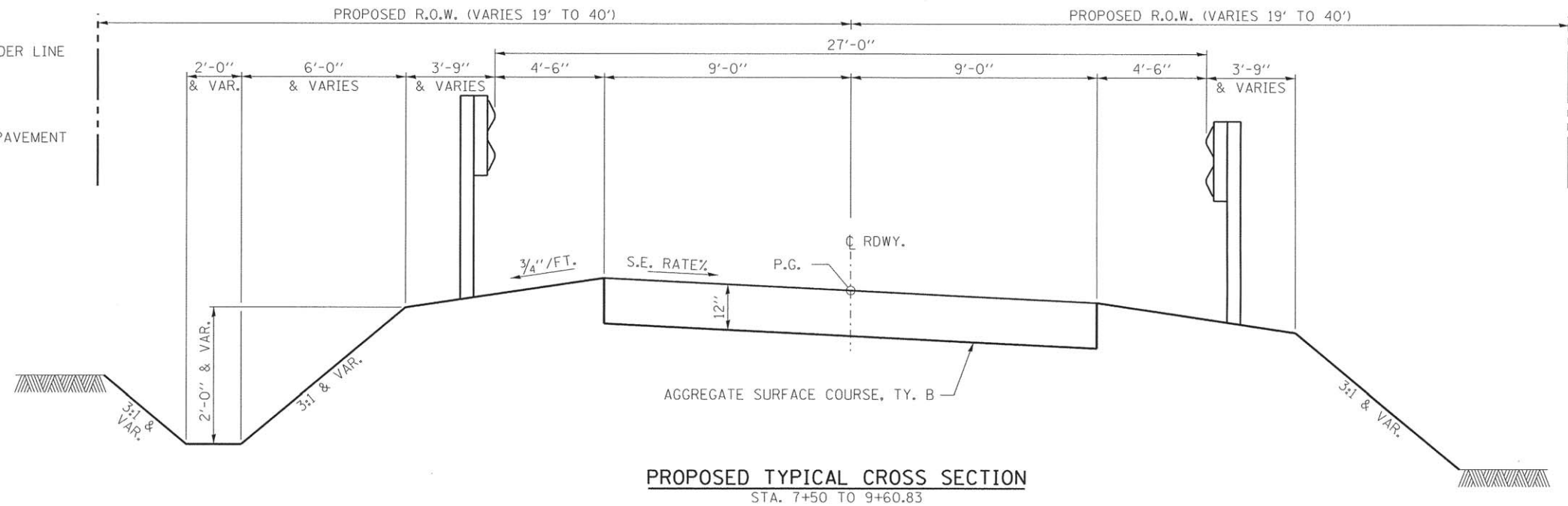
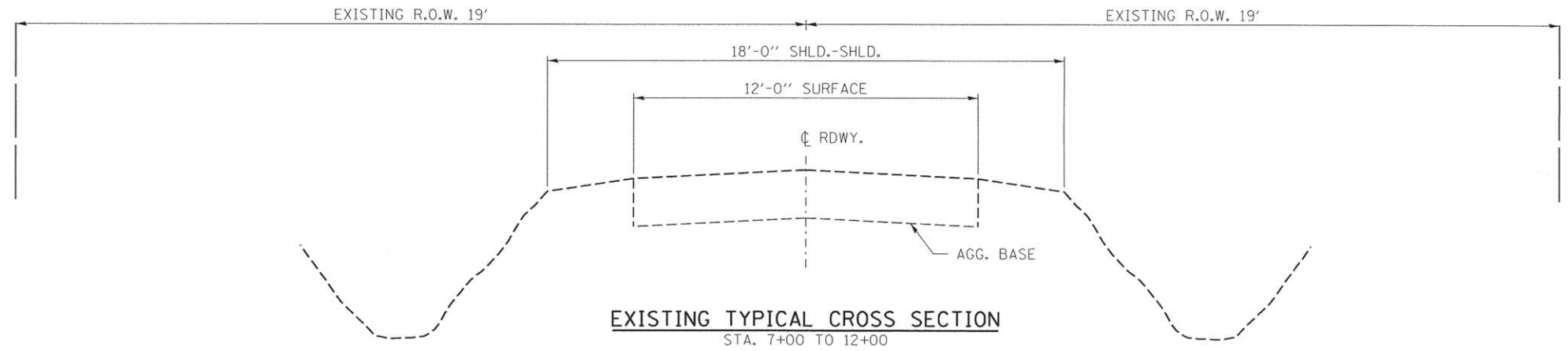
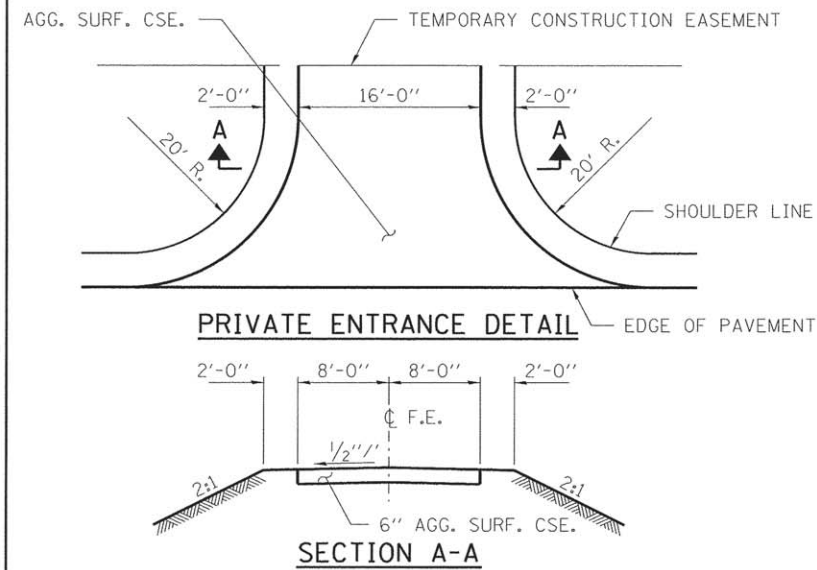
LOCATION	TRAFFIC BARRIER	TRAFFIC BARRIER	TERMINAL MARKERS
	TERMINAL, TYPE 5A	TERMINAL, TYPE 1 SPECIAL (TANGENT)	DIRECT APPLIED
	63100075	63100167	72501000
	EACH	EACH	EACH
TR 315			
RT. STA 8+96.67 TO RT. STA 9+46.67		1	1
RT. STA 9+46.67 TO RT. STA 9+59.92	1		
LT. STA 8+96.67 TO LT. STA 9+46.67		1	1
LT. STA 9+46.67 TO LT. STA 9+59.92	1		
RT. STA 10+36.08 TO RT. STA 10+49.33	1		
RT. STA 10+49.33 TO RT. STA 10+99.33		1	1
LT. STA 10+36.08 TO LT. STA 10+49.33	1		
LT. STA 10+49.33 TO LT. STA 10+99.33		1	1
TOTAL	4	4	4
USE	4	4	4

NOTE: TRAFFIC BARRIER TERMINALS SHALL BE FABRICATED AND CONSTRUCTED ACCORDING TO THE PLAN RADIUS OF THE ROADWAY OFFSET TO THE SHOULDER LINE.

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100	20300100			CU.YD.	CU.YD.	CU.YD.
TR 315							
STA 7+50 TO STA 9+60.84	119		25.00%	100.00%	89	454	-365
STA 9+60.84 TO STA 10+35.17		275	25.00%	70.00%	144		144
STA 10+35.17 TO STA 11+50	169		25.00%	100.00%	127	184	-57
ENTRANCE EMBANKMENT						73	-73
TOTAL	288	275			360		-351
USE	290	275					-350

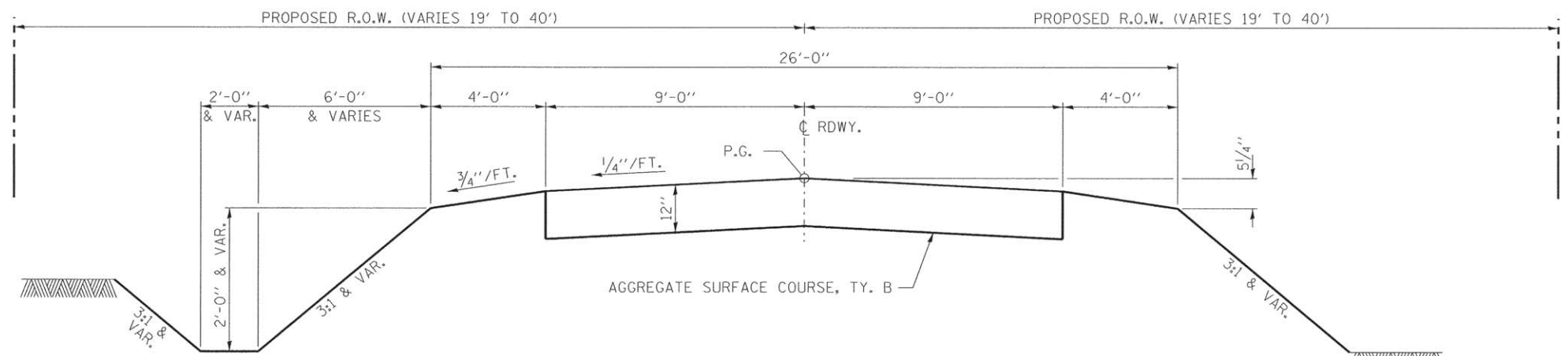
FURNISHED EXCAVATION 350 CU YDS



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING
ROADWAY ARE TO BE CONSTRUCTED FROM STA. 7+50 TO 8+10.
SEE SHEET 21 FOR TRANSITION AT BRIDGE.

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

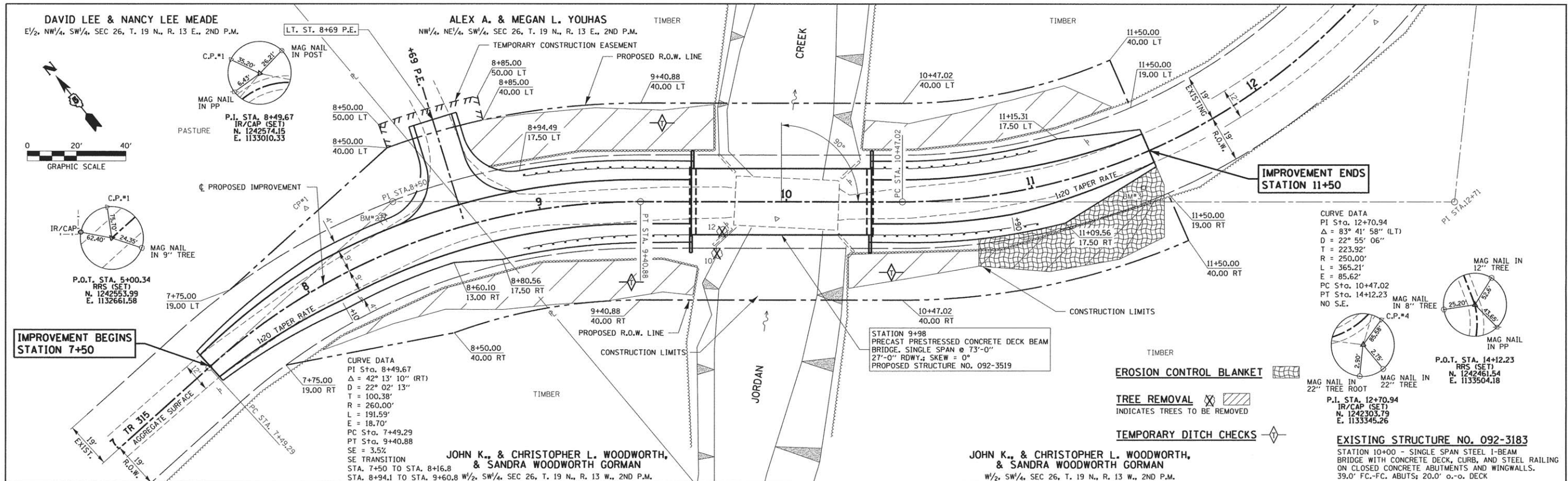


SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING
ROADWAY ARE TO BE CONSTRUCTED FROM STA. 10+90 TO 11+50.
SEE SHEET 21 FOR TRANSITION AT BRIDGE.

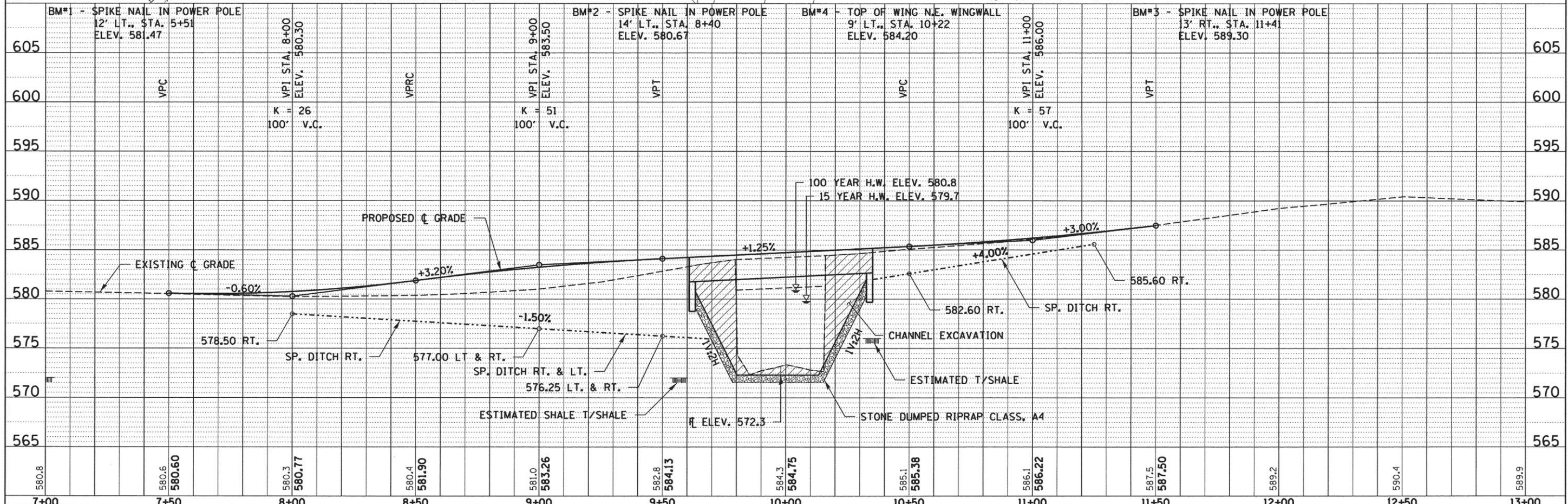
SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

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HAMPTON, LENZINI AND RENWICK, INC. 388 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - R.D.H.	REVISED -					315	09-04135-00-BR	VERMILION	29	3
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.008859	PLOT DATE = 3/30/2016	CHECKED - S.W.M.	REVISED -					CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
		DATE - 03/01/16	REVISED -					ILLINOIS FED. AID PROJECT BROS-018313201				
								SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	



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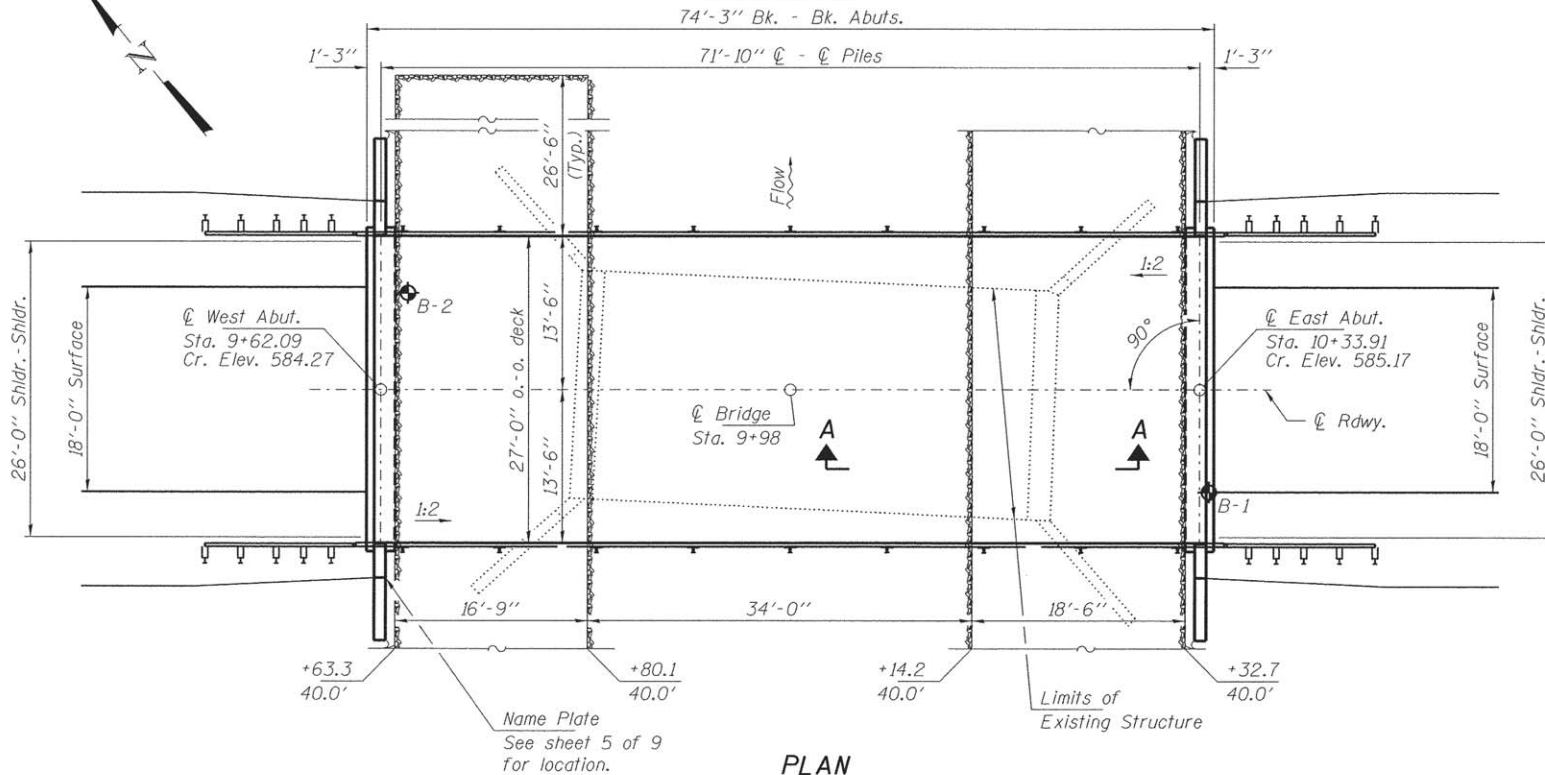
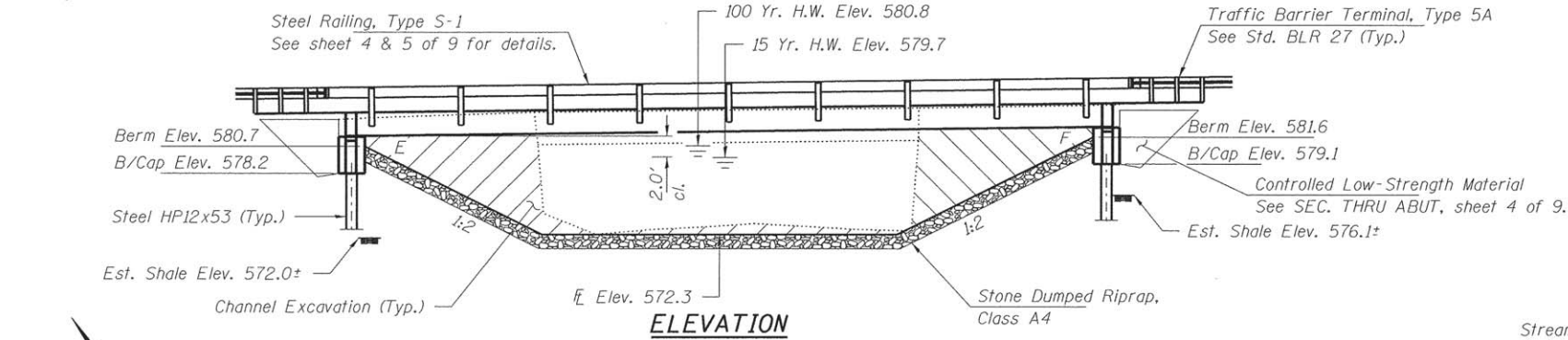
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1815 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62702	PLOT DATE = 3/30/2016	CHECKED - S.W.M.	REVISED -			CATLIN ROAD DISTRICT		CONTRACT NO. 91525		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DATE - 09/21/15	REVISED -			SCALE: 20H:5V		SHEET NO. 1 OF 1 SHEETS		STA. 8+00.00 TO STA. 12+00.00

BENCHMARK: Spike nail in power pole, 14.0' Lt. Sta. 8+40, Elev. 580.67

EXISTING STRUCTURE NO. 092-3183; Sta. 10+00, Single span steel I-beam bridge with concrete deck, curb, and steel railing on closed concrete abutment and wingwalls. 39.0' fc.-fc. abutts.; 20.00' o.-o. deck.

Structure closed to traffic during construction.

No Salvage.



PLAN

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)		Item #
	W. Abut.	E. Abut.	
Q100	578.2	579.1	8
Q200	578.2	579.1	
Design	578.2	579.1	
Check	578.2	579.1	

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with all interims.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " low lax. strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.056g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.147g
Soil Site Class = B

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Overtopping	10	1787	280	340	579.5	0.2	0.0	579.7	579.5	
Design	15	2040	290	360	579.7	0.2	0.1	579.9	579.8	
Base	100	3280	330	430*	580.8	0.6	0.2	581.4	581.0	
Max. Calc.	500	4380	340	480	581.5	0.4	0.3	581.9	581.8	

Drainage Area = 24.3 Sq. Mi. Existing Low Grade Elev. 580.3 @ Sta. 8+00
Proposed Low Grade Elev. 580.6 @ Sta. 7+50
10 Year Velocity through Existing Bridge = 6.3 fps
10 Year Velocity through Proposed Bridge = 5.6 fps
*Approach Opening (70 Sq. Ft.) to remain in place.

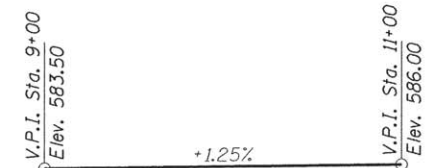
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 03/30/2016
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064

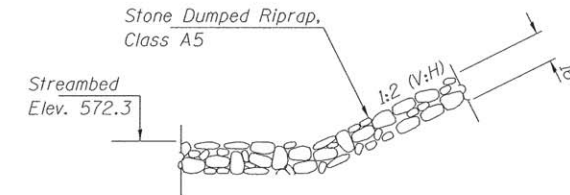


GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
All bars to be epoxy coated.
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.
The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.
Concrete sealer shall be applied to the designated areas of the abutments.



PROFILE GRADE
T.R. 315

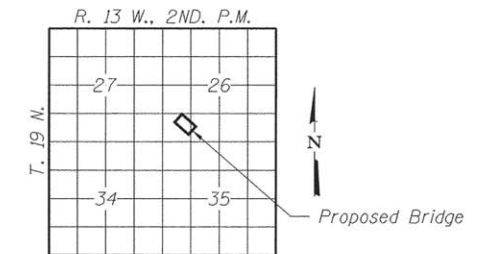


SECTION A-A

Note: See Special Provisions for Stone Dumped Riprap, Class A4.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 27"x36" PPC Deck Beam
3. 27"x36" PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type S-1
6. West Abutment
7. East Abutment
8. HP Pile Details
9. Borings



LOCATION SKETCH

JORDAN CREEK
BUILT 2011 BY
VERMILION COUNTY
SEC. 09-04135-00-BR
CATLIN ROAD DISTRICT
STR. NO. 092-3519
LOADING HL-93

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			275
Stone Dumped Riprap, Class A4	Ton			510
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			75
Concrete Structures	Cu. Yd.		24.6	24.6
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,971		1,971
Reinforcement Bars, Epoxy Coated	Pound		3,380	3,380
Steel Railing, Type S-1	Foot	153		153
Furnishing Steel Piles HP12x53	Foot		120	120
Name Plates	Each		1	1
Concrete Sealer	Sq. Ft.		144	144
Controlled Low-Strength Material	Cu. Yd.			60
Concrete Cut-off Wall	Cu. Yd.		6.4	6.4
Setting Piles in Rock	Each		8	8

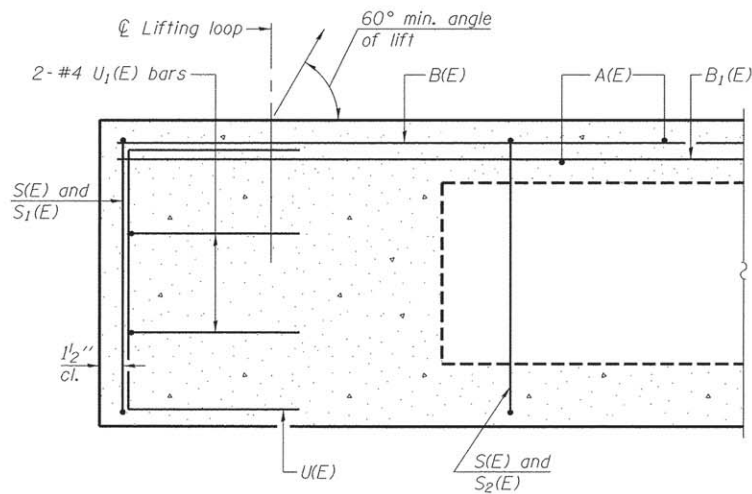
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ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184,200959	PLOT DATE = 3/30/2016	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT

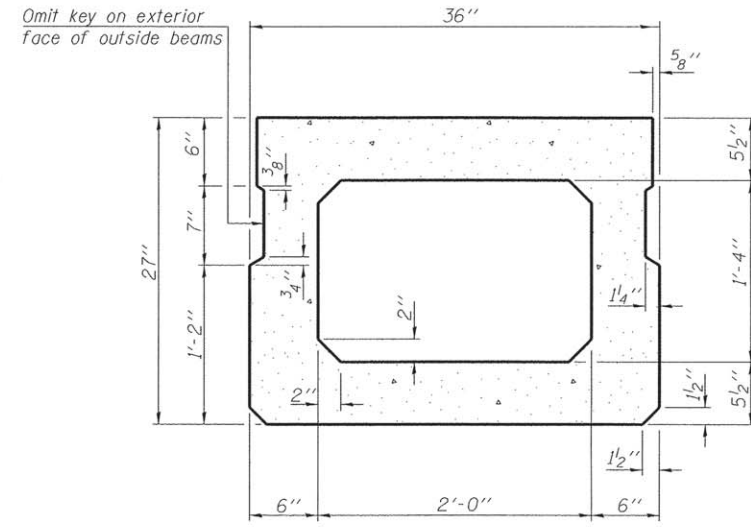
GENERAL PLAN & ELEVATION
STRUCTURE NO. 092-3519

SHEET NO. 1 OF 9 SHEETS

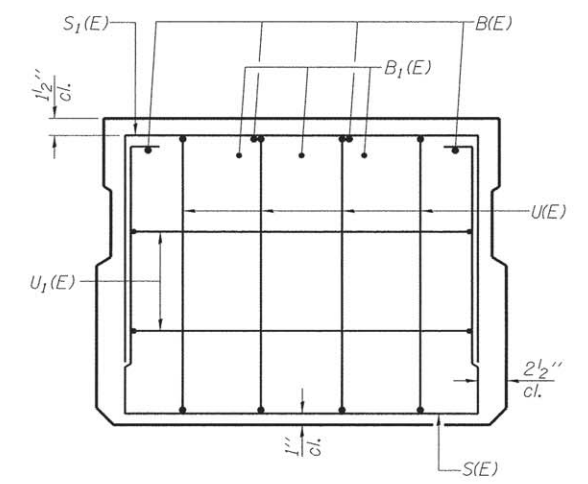
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	5
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BROS-018313201				



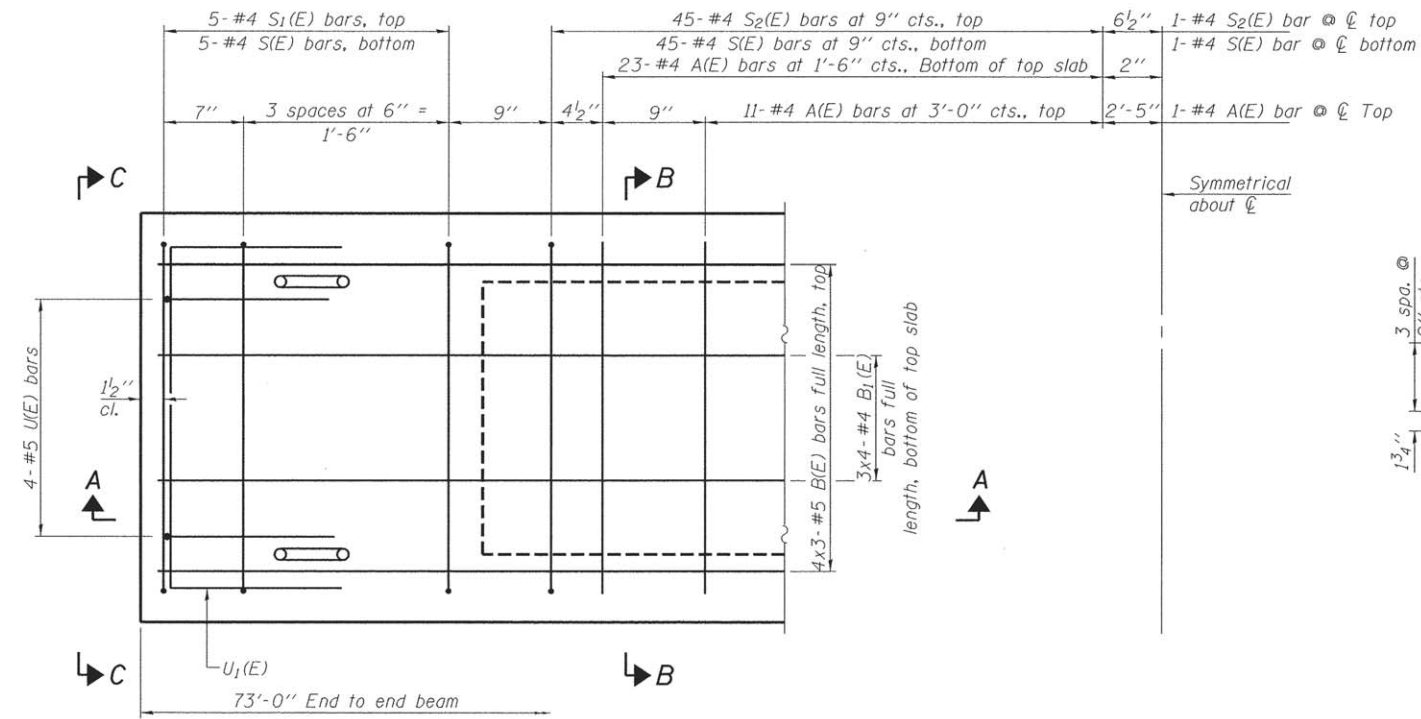
SECTION A-A



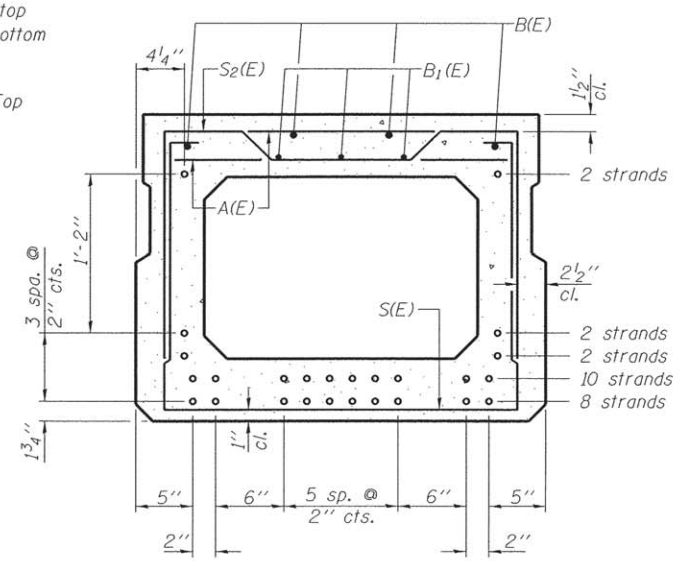
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	69	#4	2'-7"	—
B(E)	12	#5	25'-11"	—
B1(E)	12	#4	19'-8"	—
S(E)	101	#4	7'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	91	#4	6'-2"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-0"	U

Note: See sheets 3 & 4 of 9 for additional details and Bill of Material.

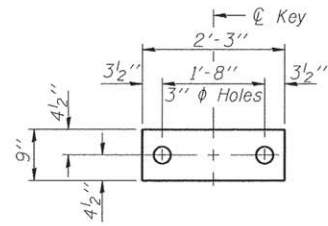
MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

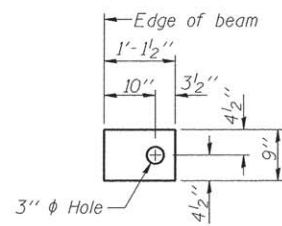
Notes:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 4x3-#5 etc. indicates 4 lines of bars with 3 lengths per line.

PD-2736-0 6-8-15

FILE NAME = 140182-sht-br1dige.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	27" x 36" PPC DECK BEAM STRUCTURE NO. 092-3519	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3888 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			315	09-04135-00-BR	VERMILION	29	6
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT DATE = 3/30/2016	DRAWN - R.D.H.	REVISED -			CATLIN ROAD DISTRICT				CONTRACT NO. 91525
		CHECKED - S.W.M.	REVISED -			SHEET NO. 2 OF 9 SHEETS				



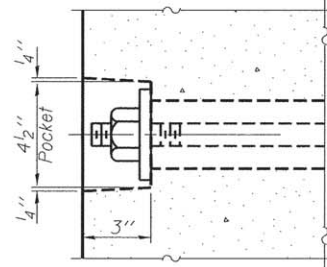
FABRIC BEARING PAD
(Interior - 16 Req'd.)



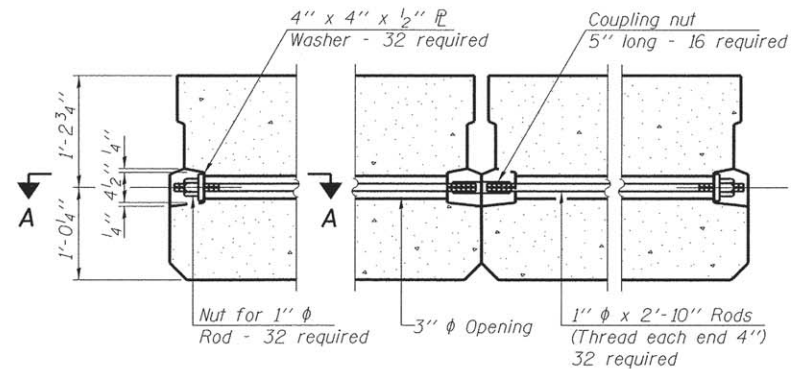
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

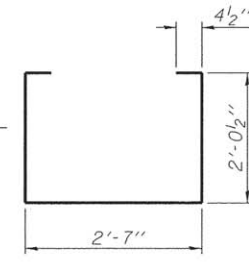
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



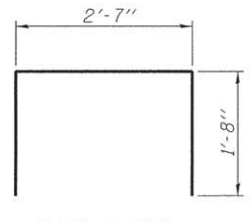
SECTION A-A



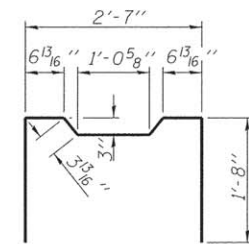
TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)



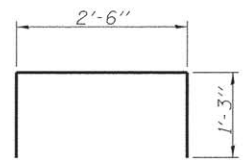
BAR S1(E)



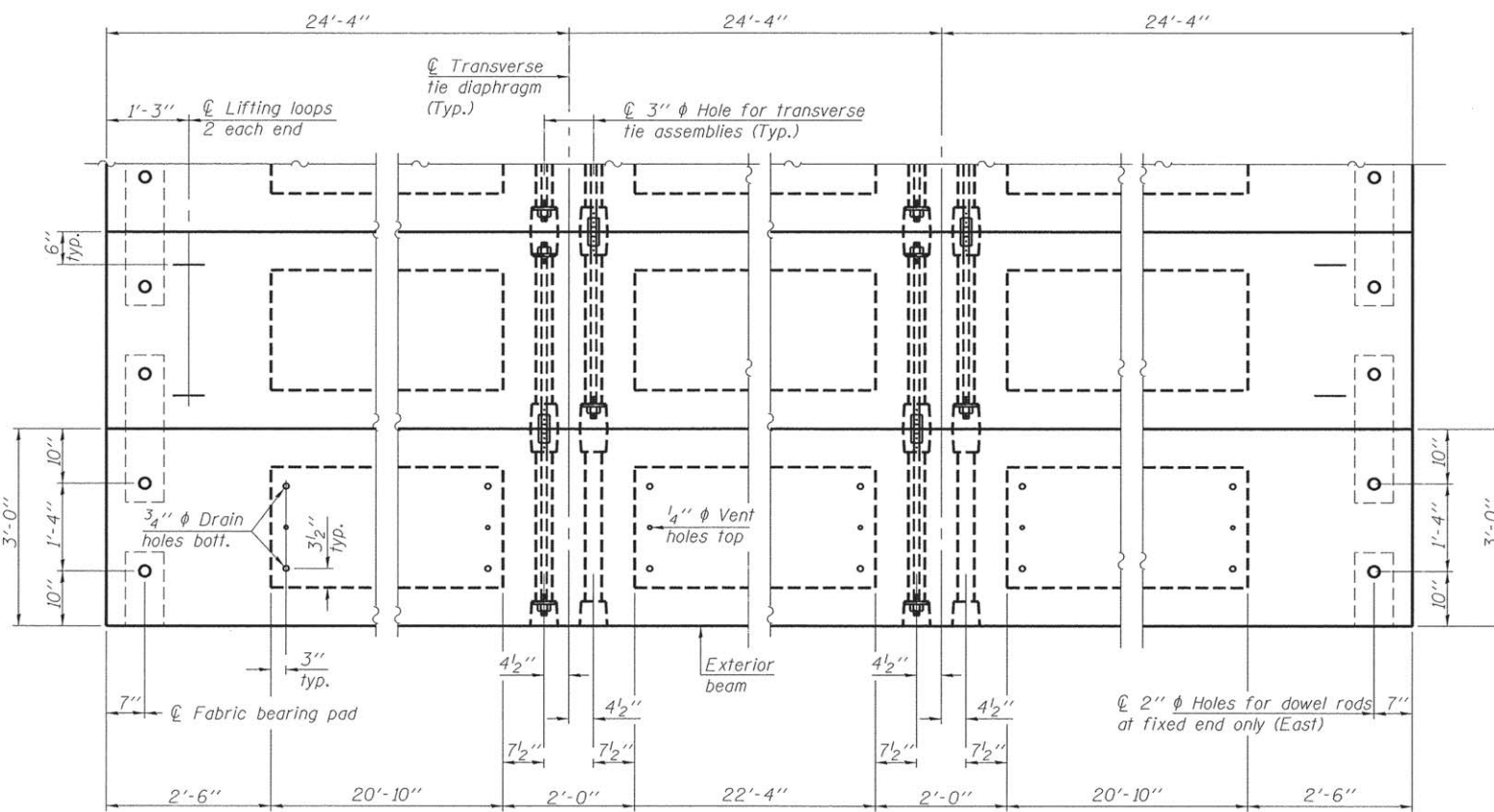
BAR S2(E)



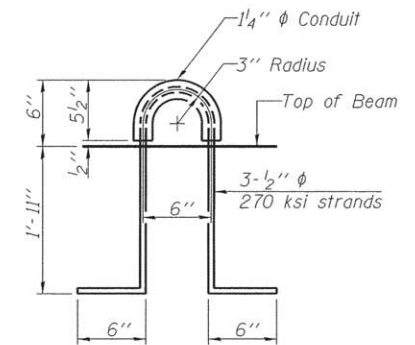
BAR U(E)



BAR U1(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

Note: Connect beams in pairs with the transverse tie configuration shown.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi. All reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,971
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PD-2736-0D

6-8-15

FILE NAME = 148182-shr-bridge.dgn	USER NAME =
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.005959	PLOT DATE = 3/30/2016

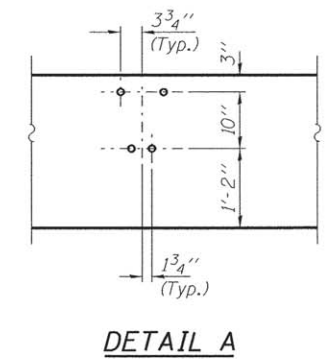
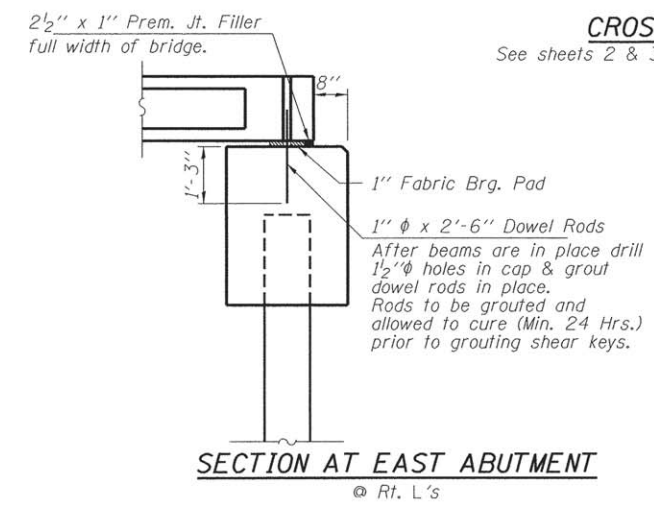
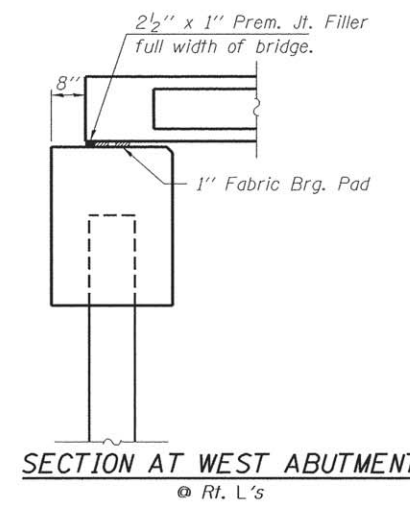
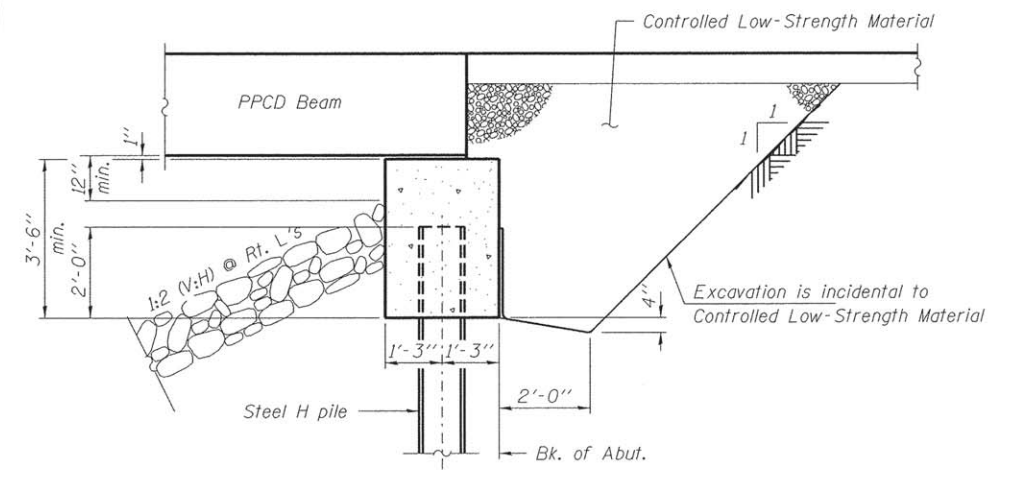
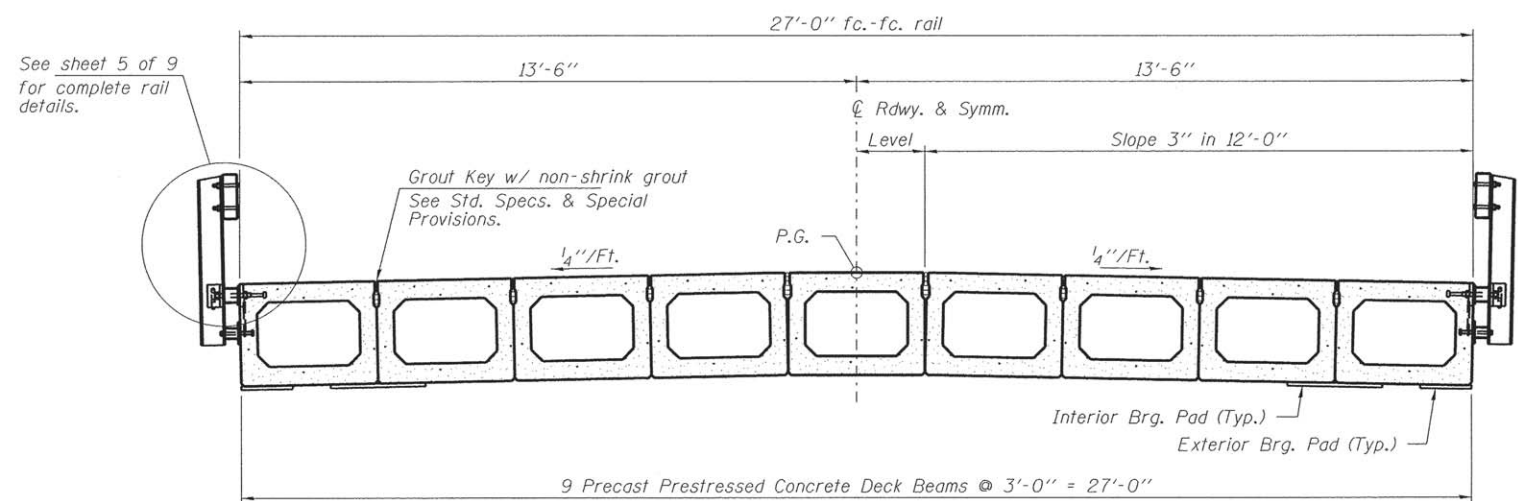
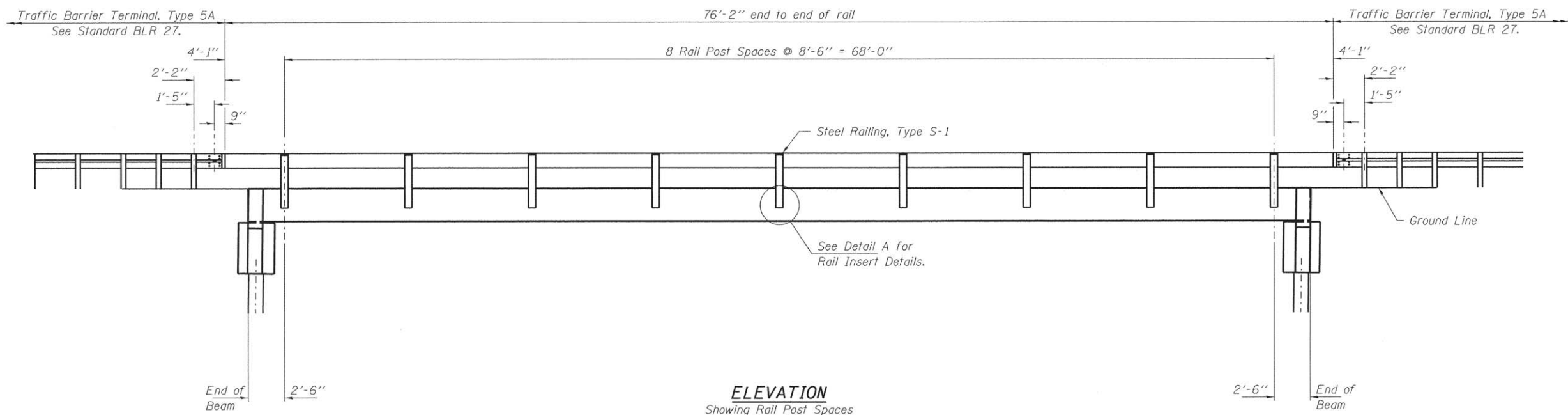
DESIGNED - L.A.P.	REVISD -
CHECKED - S.W.M.	REVISD -
DRAWN - R.D.H.	REVISD -
CHECKED - S.W.M.	REVISD -

STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT

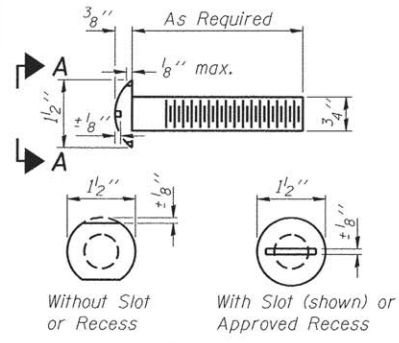
27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 092-3519

SHEET NO. 3 OF 9 SHEETS

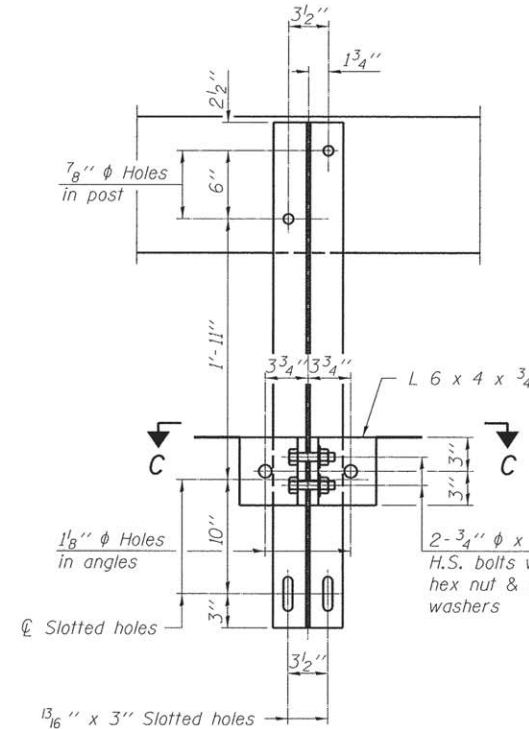
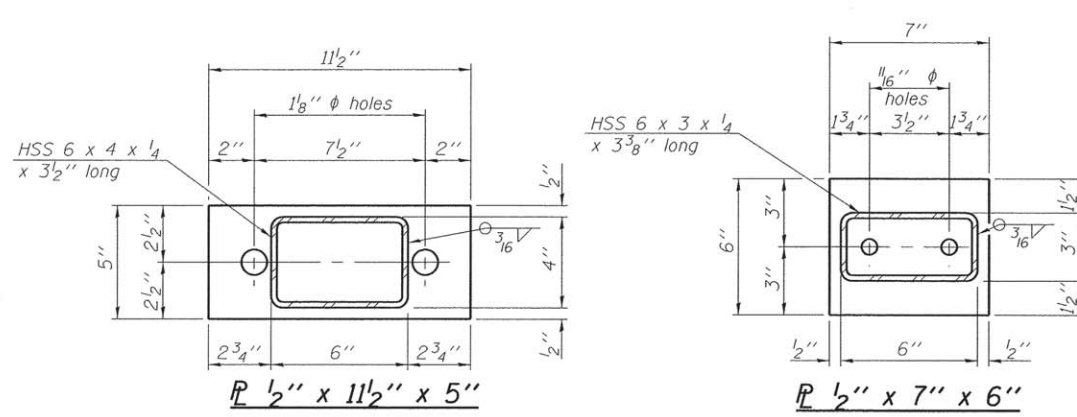
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	7
CATLIN ROAD DISTRICT		CONTRACT NO. 91525		
ILLINOIS FED. AID PROJECT BR05-01833201				



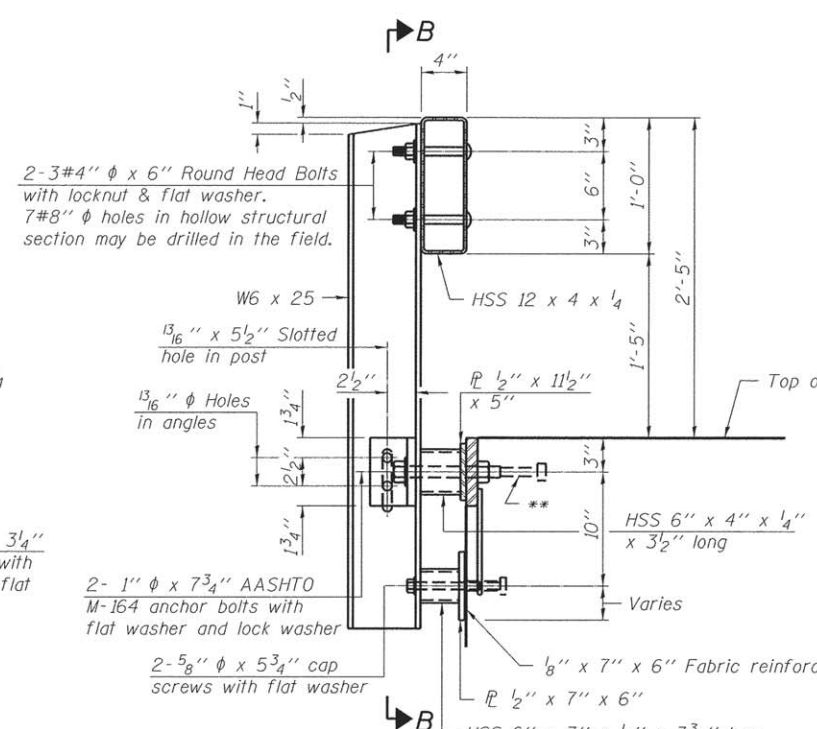
FILE NAME = 140182-sh-t-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 092-3519	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 2045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62701	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			315	09-04135-00-BR	VERMILION	29	8
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/30/2016	DRAWN - R.D.J.H.	REVISED -			CATLIN ROAD DISTRICT CONTRACT NO. 91525				
		CHECKED - S.W.M.	REVISED -			[ILLINOIS] FED. AID PROJECT BR05-018313201				
SHEET NO. 4 OF 9 SHEETS										



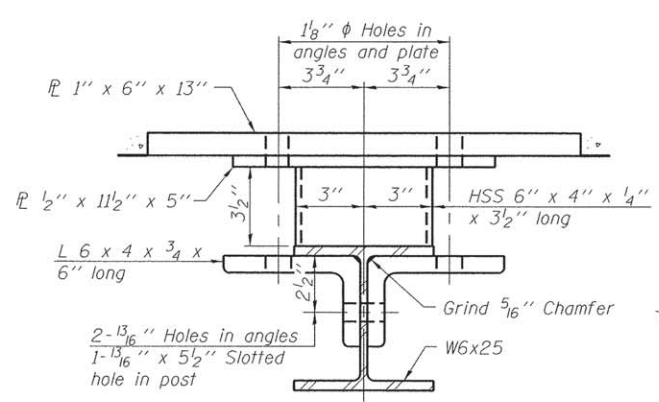
VIEW A-A
ROUND HEAD BOLT



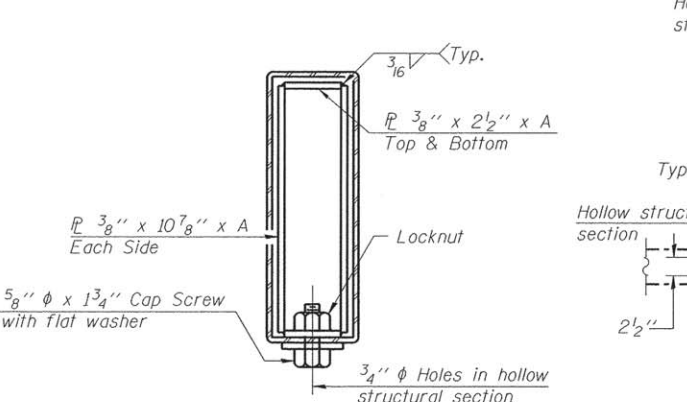
SECTION B-B



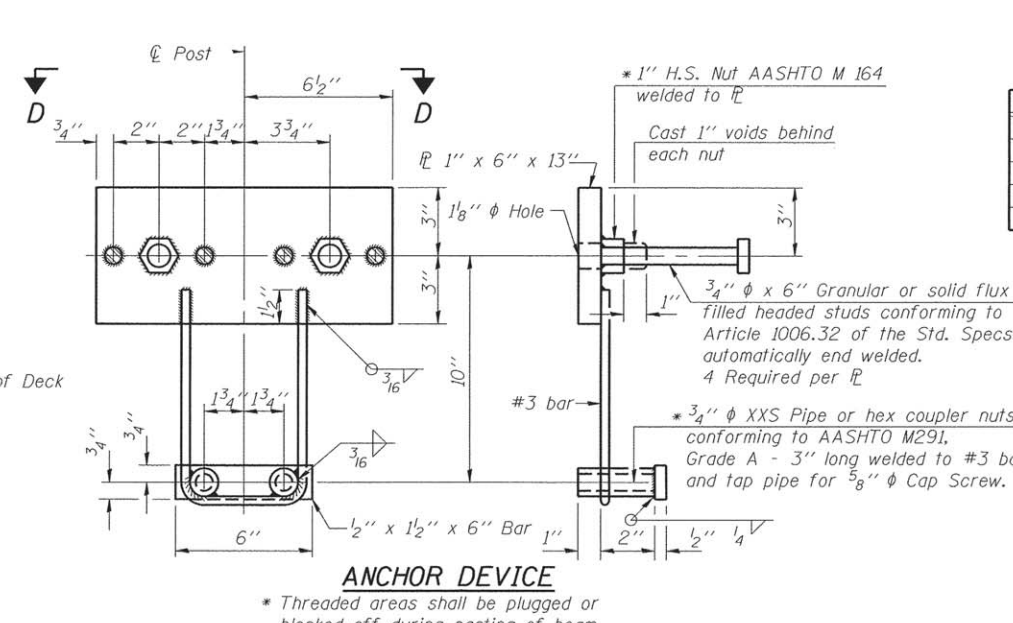
SECTION AT RAILING POST



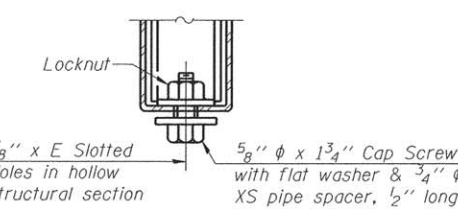
SECTION C-C



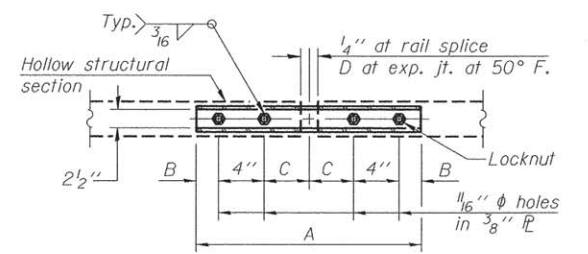
SECTIONS AT RAIL SPLICE



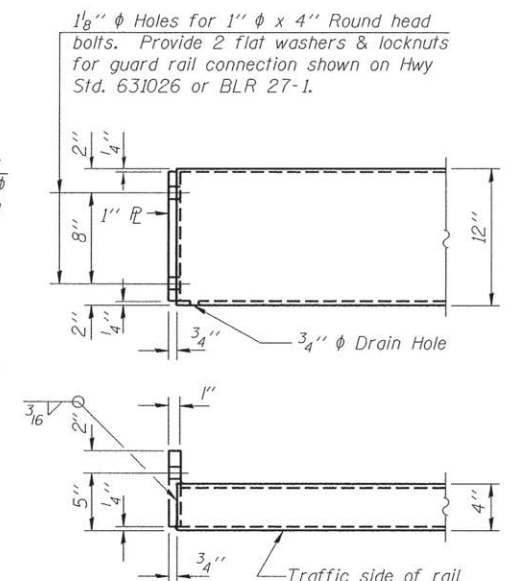
ANCHOR DEVICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE P TYPICAL



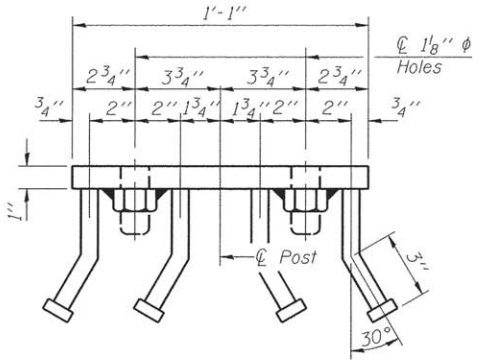
END OF RAIL DETAILS

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	153

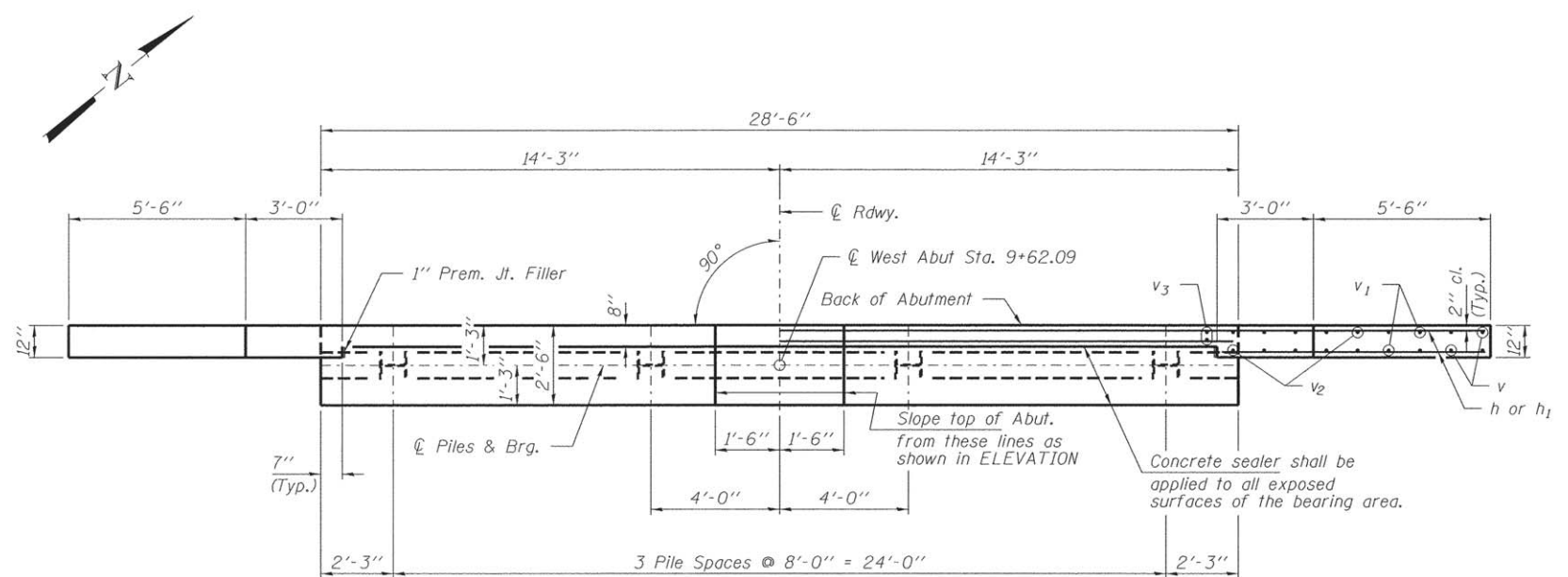
R-23A 1-12-15 (10'-9" Maximum Post Spacing)

FILE NAME = 140182-shr-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00899	PLOT DATE = 3/30/2016	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

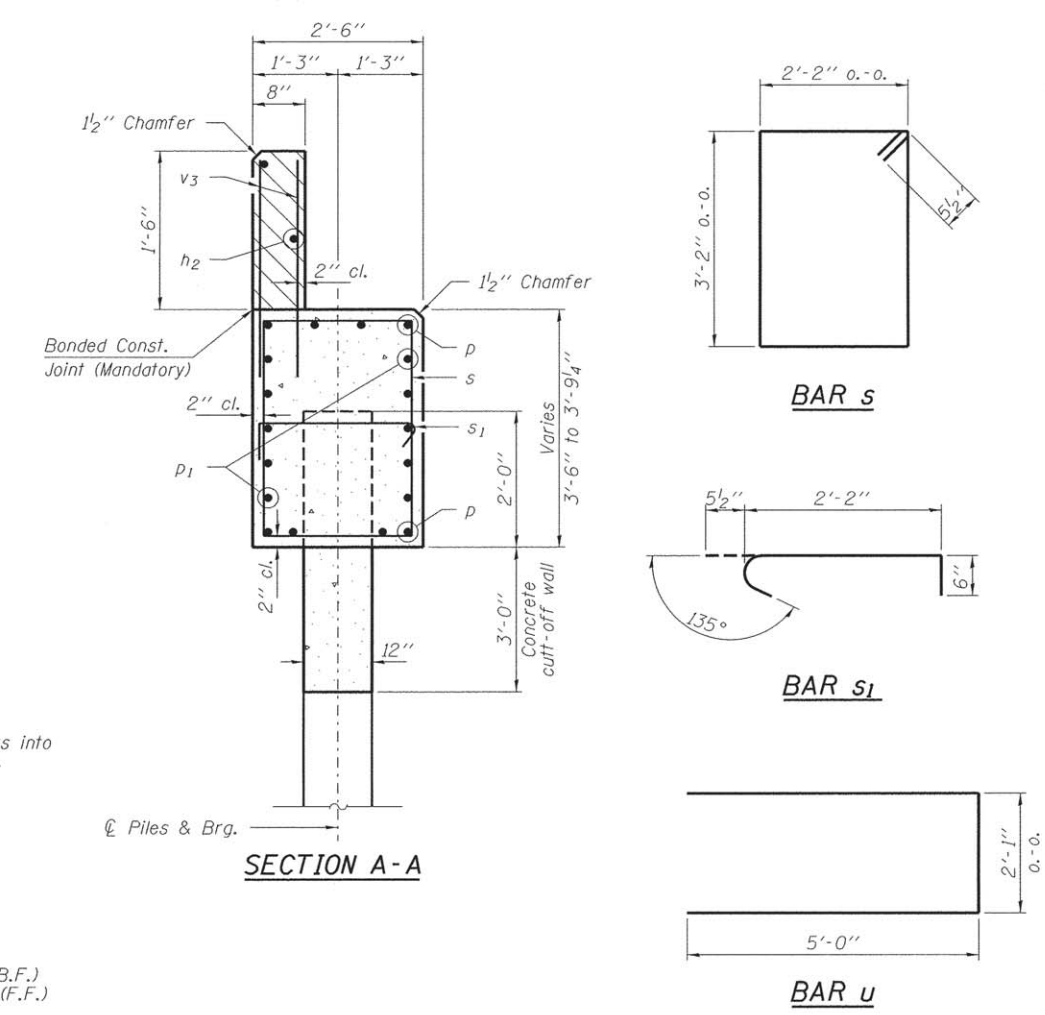
STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 092-3519
SHEET NO. 5 OF 9 SHEETS

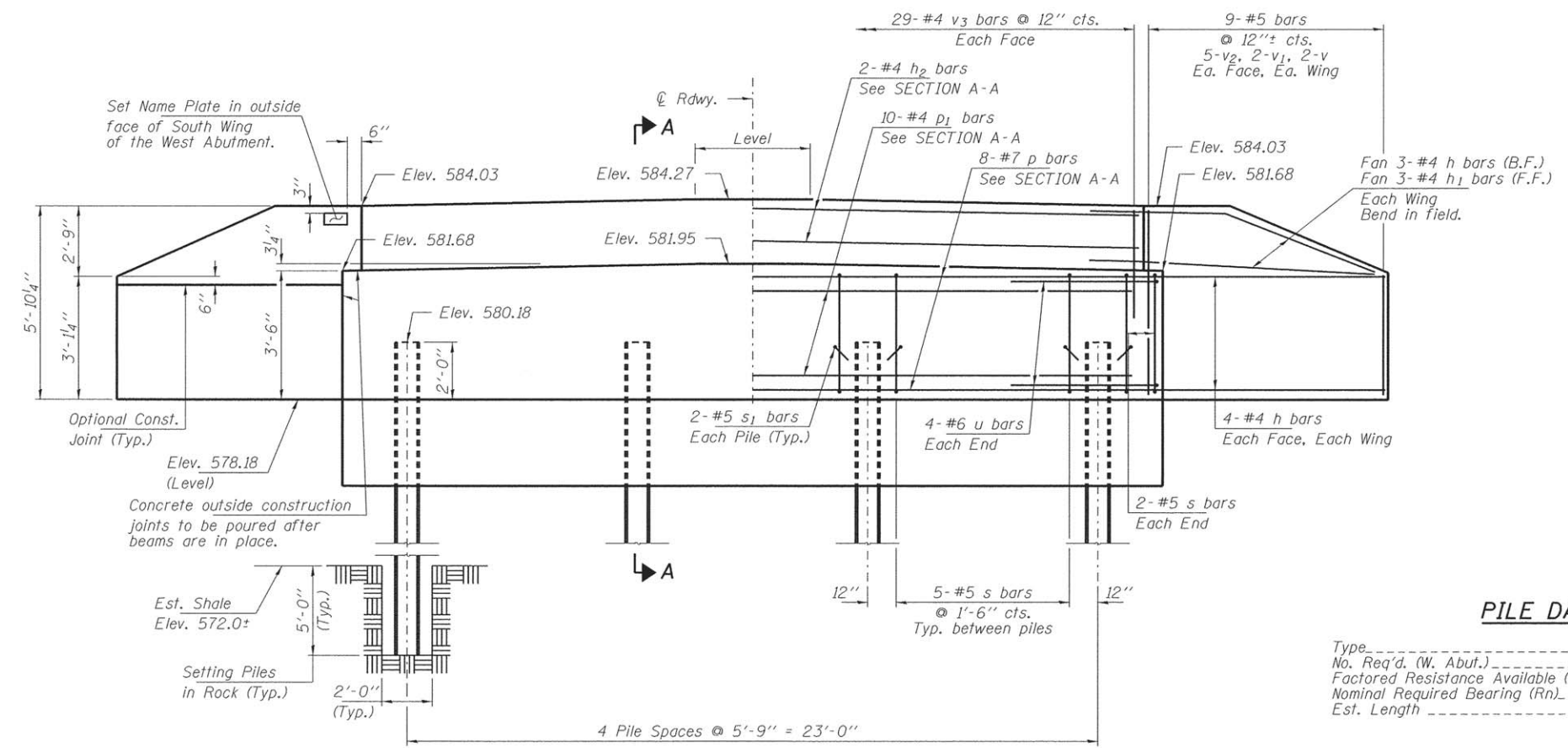
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	9
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJ. ECT BR05-018313201				



PLAN



SECTION A-A



ELEVATION
(Looking West)

Note: Extend h bars into abutment cap.

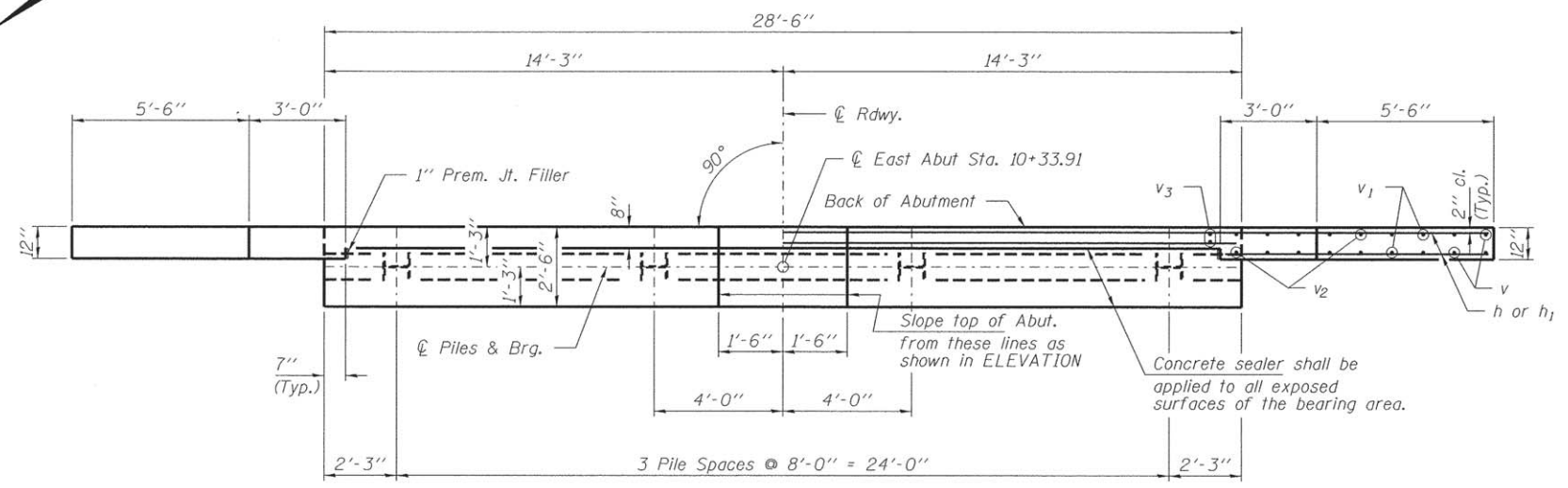
PILE DATA

Type: Steel Piles HP12x53
 No. Req'd. (W. Abut.) 4
 Factored Resistance Available (Rf) 230 Kips/Pile
 Nominal Required Bearing (Rn) 419 Kips/Pile
 Est. Length 15 Ft/Pile

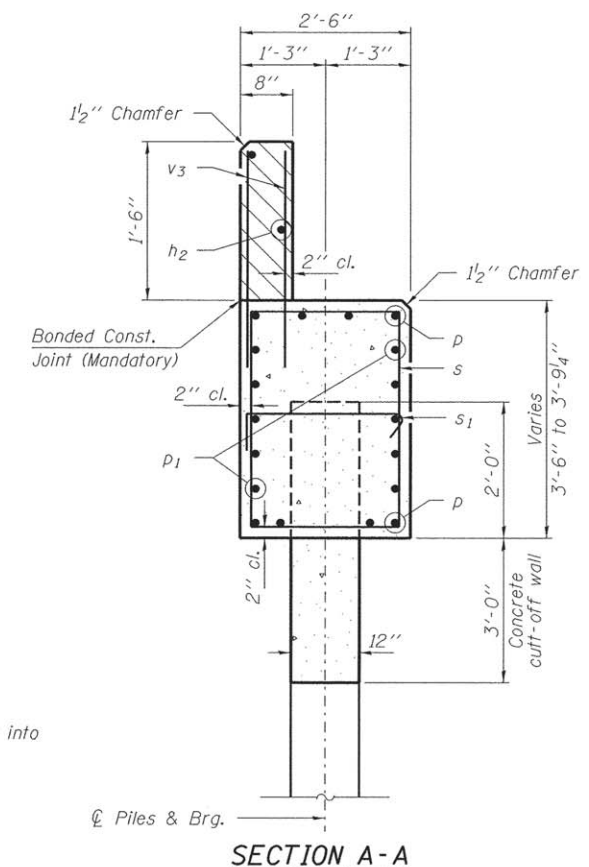
BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	22	#5	9'-9"	—
h1	6	#4	8'-3"	—
h2	2	#4	28'-2"	—
p	8	#7	28'-2"	—
p1	10	#4	28'-2"	—
s	19	#5	11'-7"	□
s1	8	#5	3'-2"	┌
u	8	#6	12'-1"	U
v	8	#5	2'-10"	—
v1	8	#5	3'-11"	—
v2	20	#5	4'-11"	—
v3	58	#5	3'-2"	—
Structure Excavation				Cu. Yd. 19
Concrete Structures				Cu. Yd. 12.3
Reinforcement Bars, Epoxy Coated				Pound 1,690
Steel Piles HP12x53				Foot 60
Name Plates				Each 1
Concrete Sealer				Sq. Ft. 72
Concrete Cut-Off Wall				Cu. Yd. 3.2
Setting Piles in Rock				Each 4

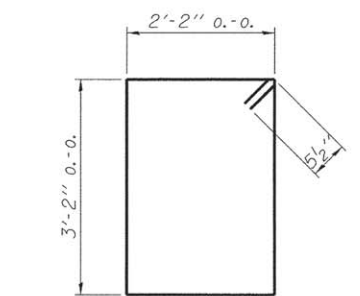
All reinforcement bars shall be epoxy coated



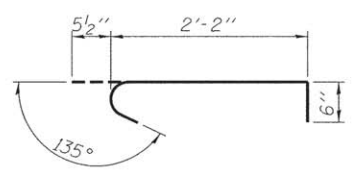
PLAN



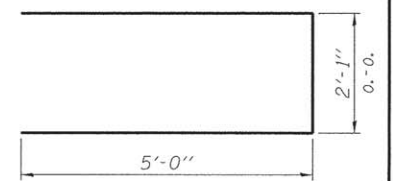
SECTION A-A



BAR s

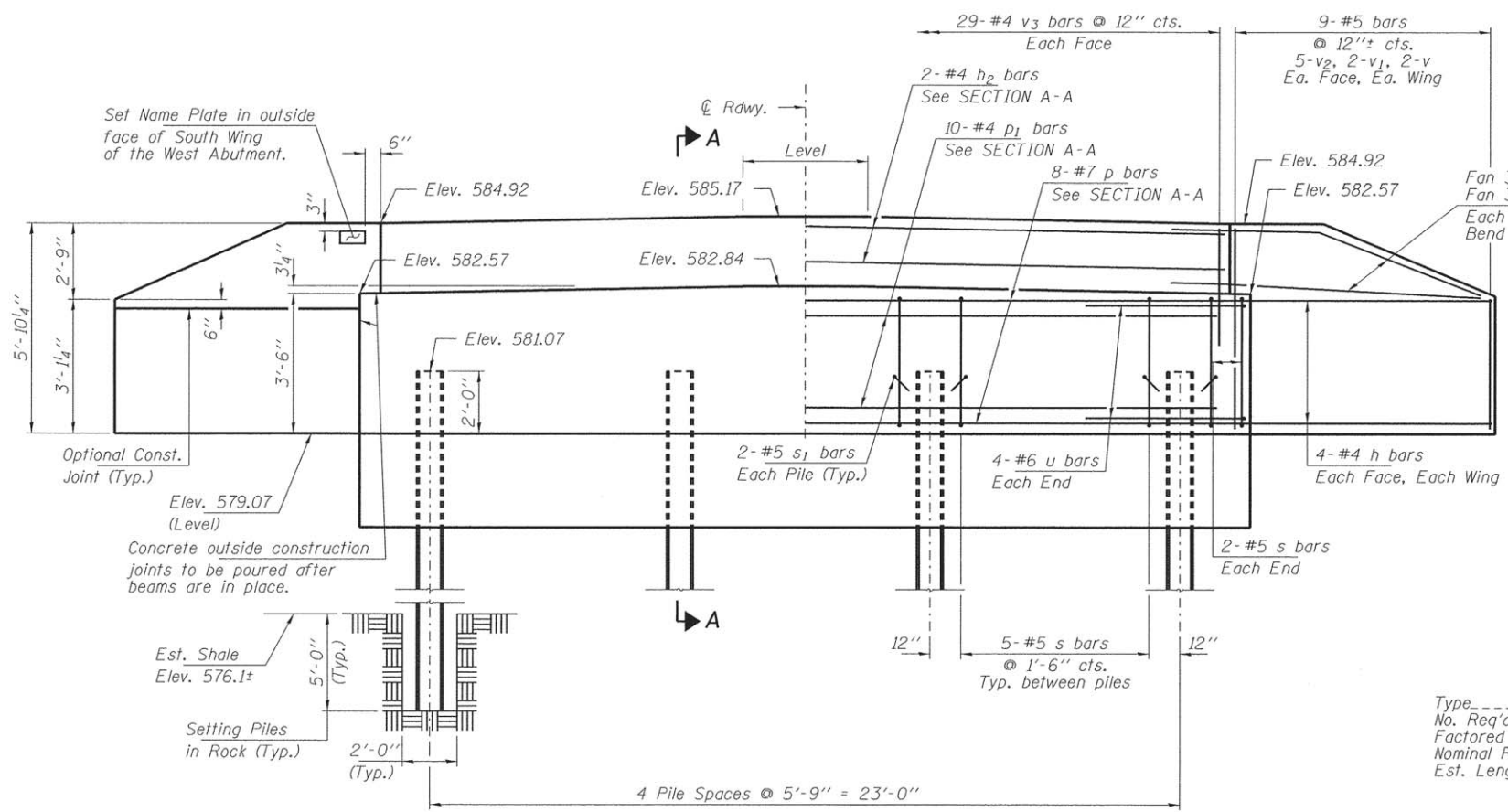


BAR s1



BAR u

Note: Extend h bars into abutment cap.



ELEVATION
(Looking East)

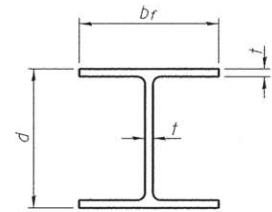
PILE DATA

Type _____ Steel Piles HP12x53
 No. Req'd. (E. Abut.) _____ 4
 Factored Resistance Available (Rf) _____ 230 Kips/Pile
 Nominal Required Bearing (Rn) _____ 419 Kips/Pile
 Est. Length _____ 15 Ft/Pile

BILL OF MATERIAL - E. ABUT.

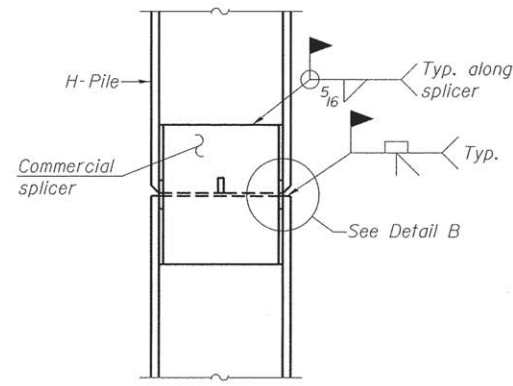
BAR	NO.	SIZE	LENGTH	SHAPE	
h	22	#5	9'-9"	—	
h1	6	#4	8'-3"	—	
h2	2	#4	28'-2"	—	
p	8	#7	28'-2"	—	
p1	10	#4	28'-2"	—	
s	19	#5	11'-7"	□	
s1	8	#5	3'-2"	U	
u	8	#6	12'-1"	U	
v	8	#5	2'-10"	—	
v1	8	#5	3'-11"	—	
v2	20	#5	4'-11"	—	
v3	58	#5	3'-2"	—	
Structure Excavation				Cu. Yd.	19
Concrete Structures				Cu. Yd.	12.3
Reinforcement Bars, Epoxy Coated				Pound	1,690
Steel Piles HP12x53				Foot	60
Name Plates				Each	1
Concrete Sealer				Sq. Ft.	72
Concrete Cut-Off Wall				Cu. Yd.	3.2
Setting Piles in Rock				Each	4

All reinforcement bars shall be epoxy coated

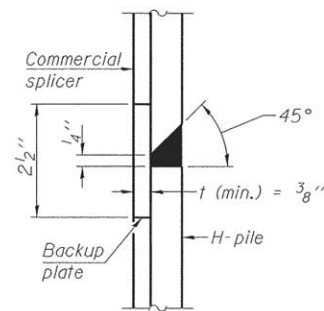


STEEL PILE TABLE

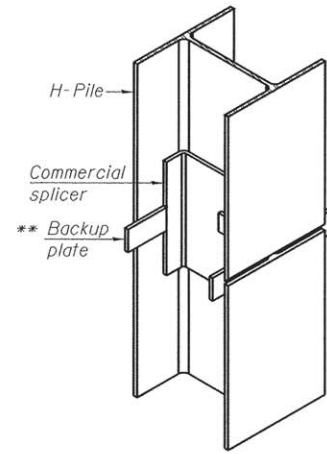
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

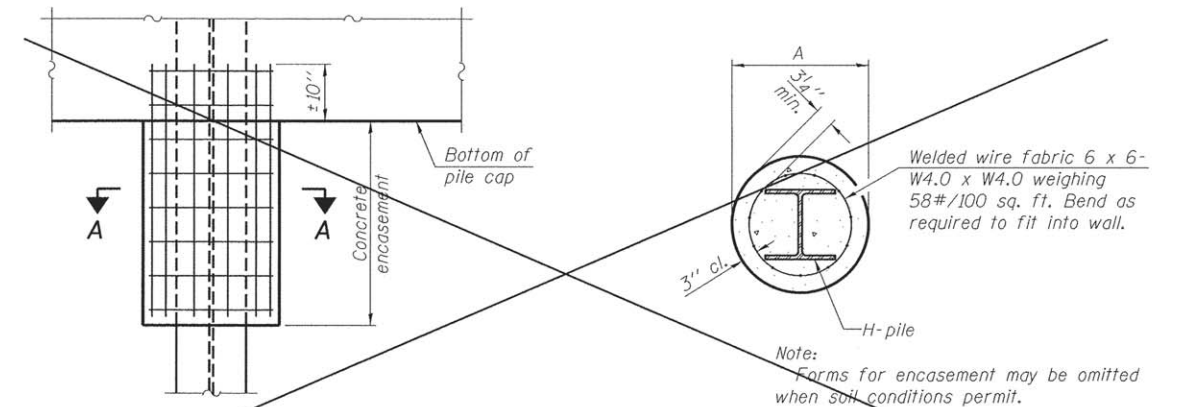


DETAIL "B"



ISOMETRIC VIEW

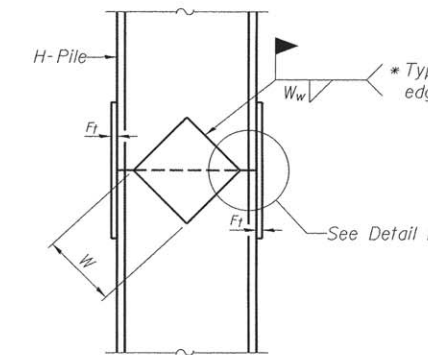
WELDED COMMERCIAL SPLICE



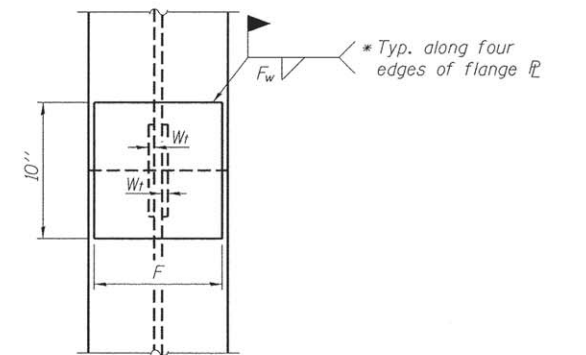
ELEVATION

SECTION A-A

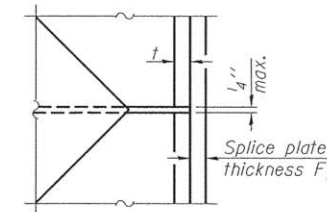
PILE ENCASEMENT
(Not Required)



ELEVATION



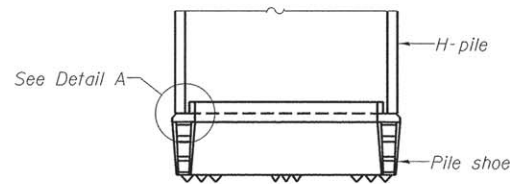
END VIEW



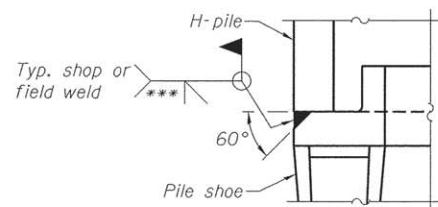
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

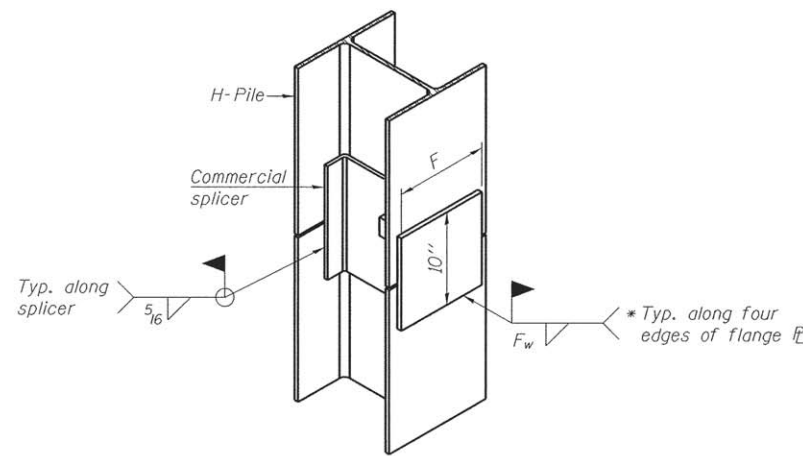


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

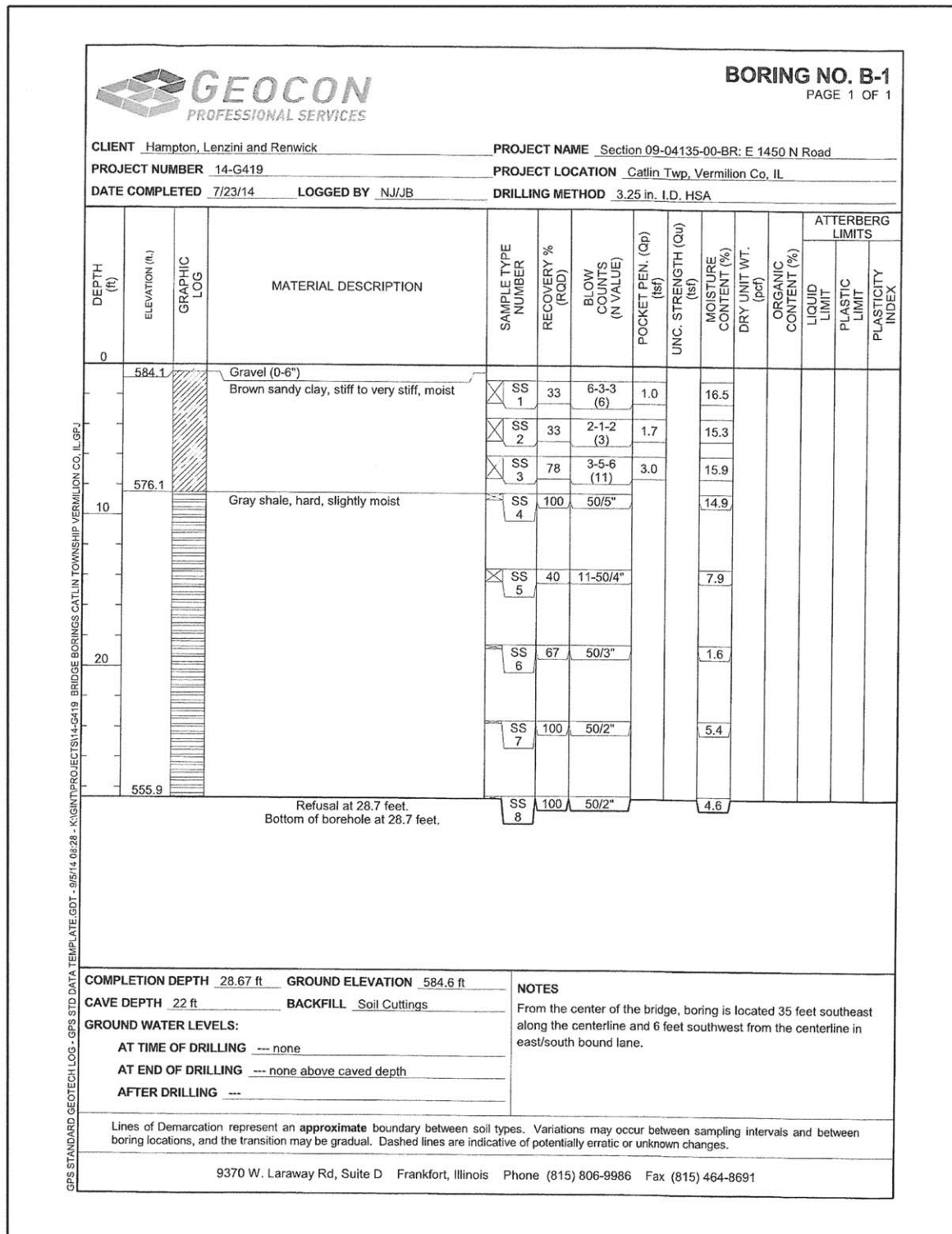
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

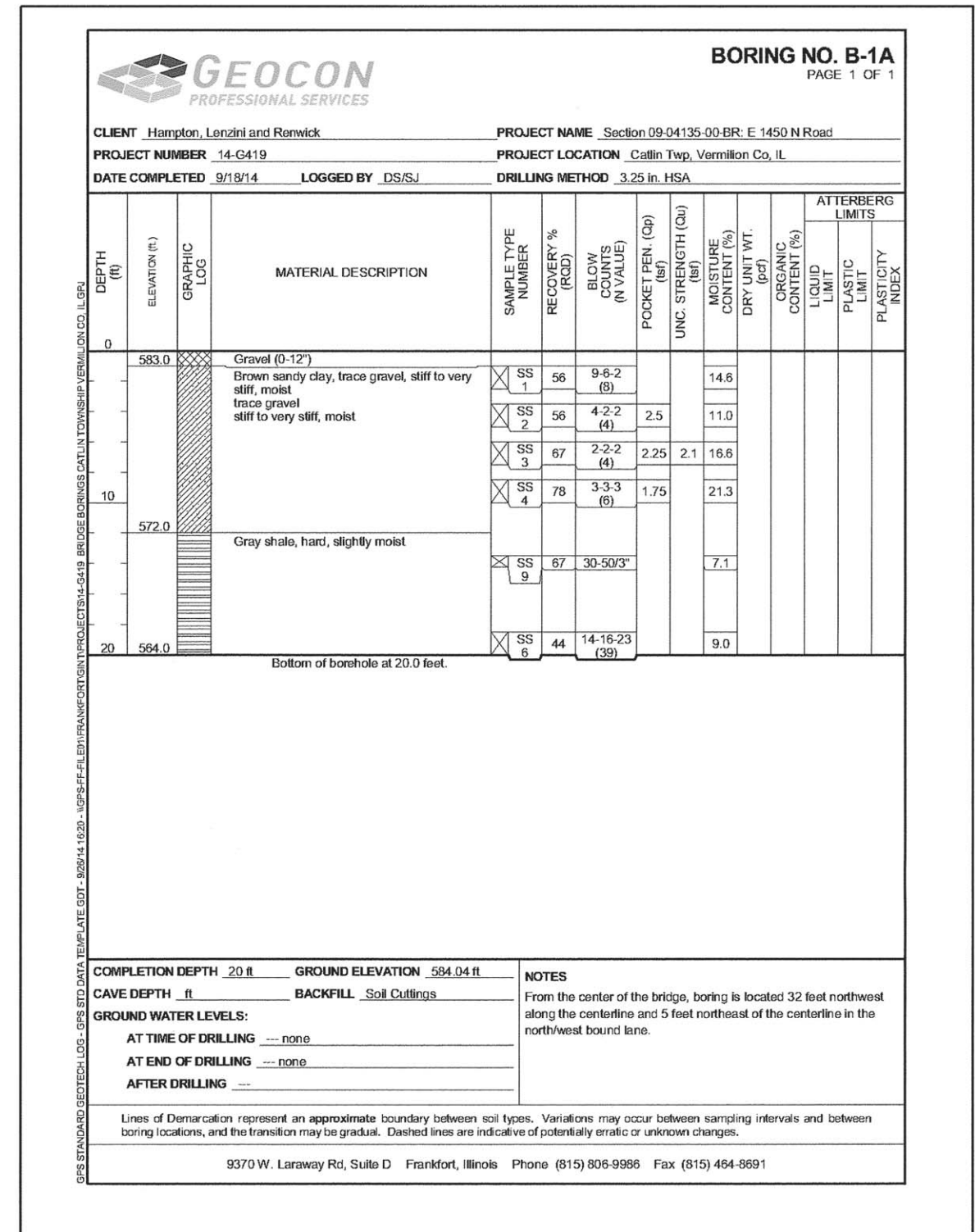
F-HP

1-27-12

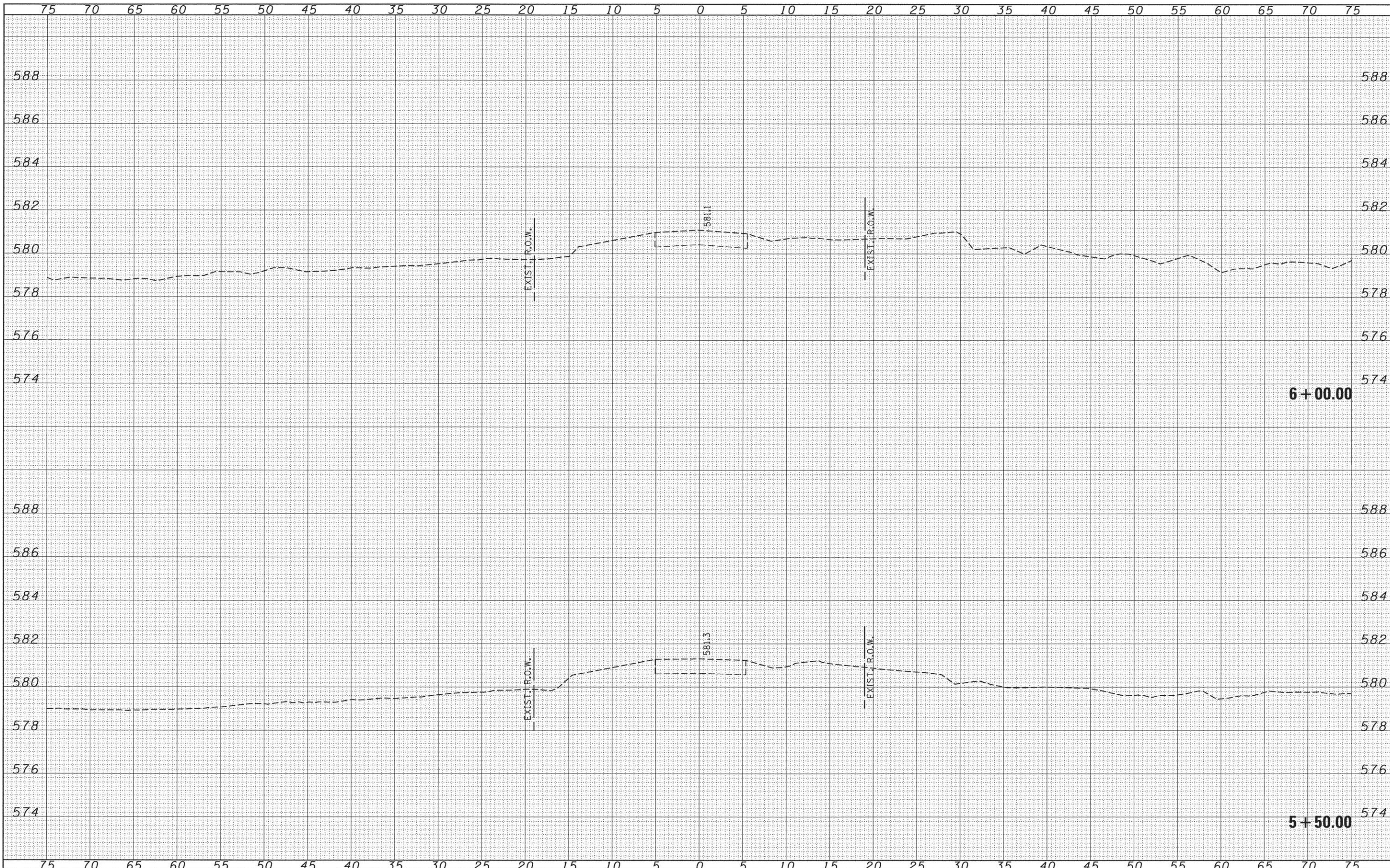
FILE NAME = 140182-shr-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 092-3519	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			315	09-04135-00-BR	VERMILION	29	12	
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.009959	PLOT DATE = 3/30/2016	DRAWN - R.D.H.	REVISED -			CATLIN ROAD DISTRICT		CONTRACT NO. 91525			
		CHECKED - S.W.M.	REVISED -			SHEET NO. 8 OF 9 SHEETS		ILLINOIS FED. AID PROJECT BR05-0183(320)			



BORING-1



BORING-2



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

FILE NAME = 140182-sht-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3995 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS/P/E/SE CORP. 184.000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

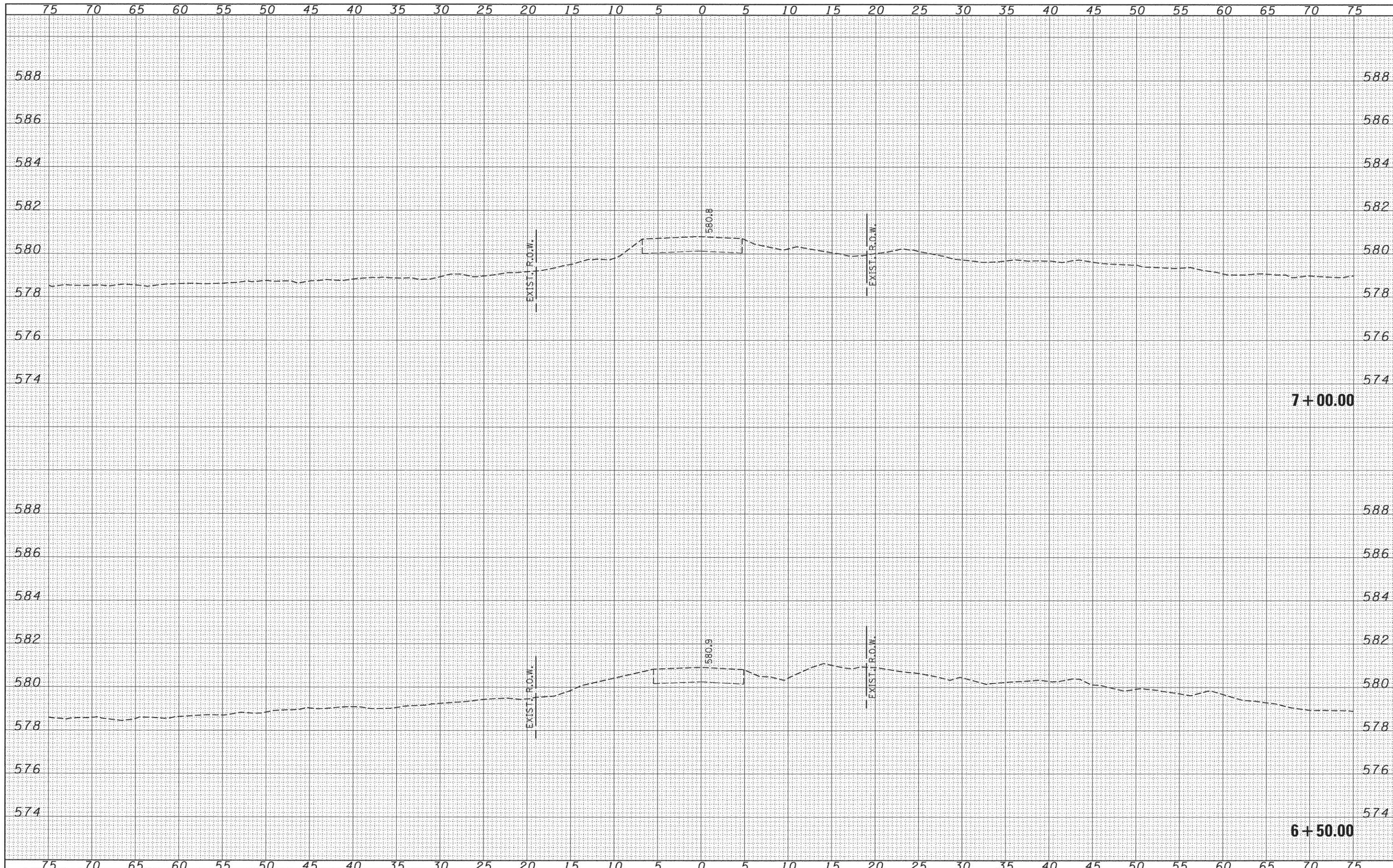
STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 1 OF 16 SHEETS
 STA. 5+50.00 TO STA. 6+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	14
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(320)				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



FILE NAME = 140182-sht-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED -	J.W.F.	REVISED -	
DRAWN -	L.G.C.	REVISED -	
CHECKED -	S.W.M.	REVISED -	
DATE -	09/21/15	REVISED -	

**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

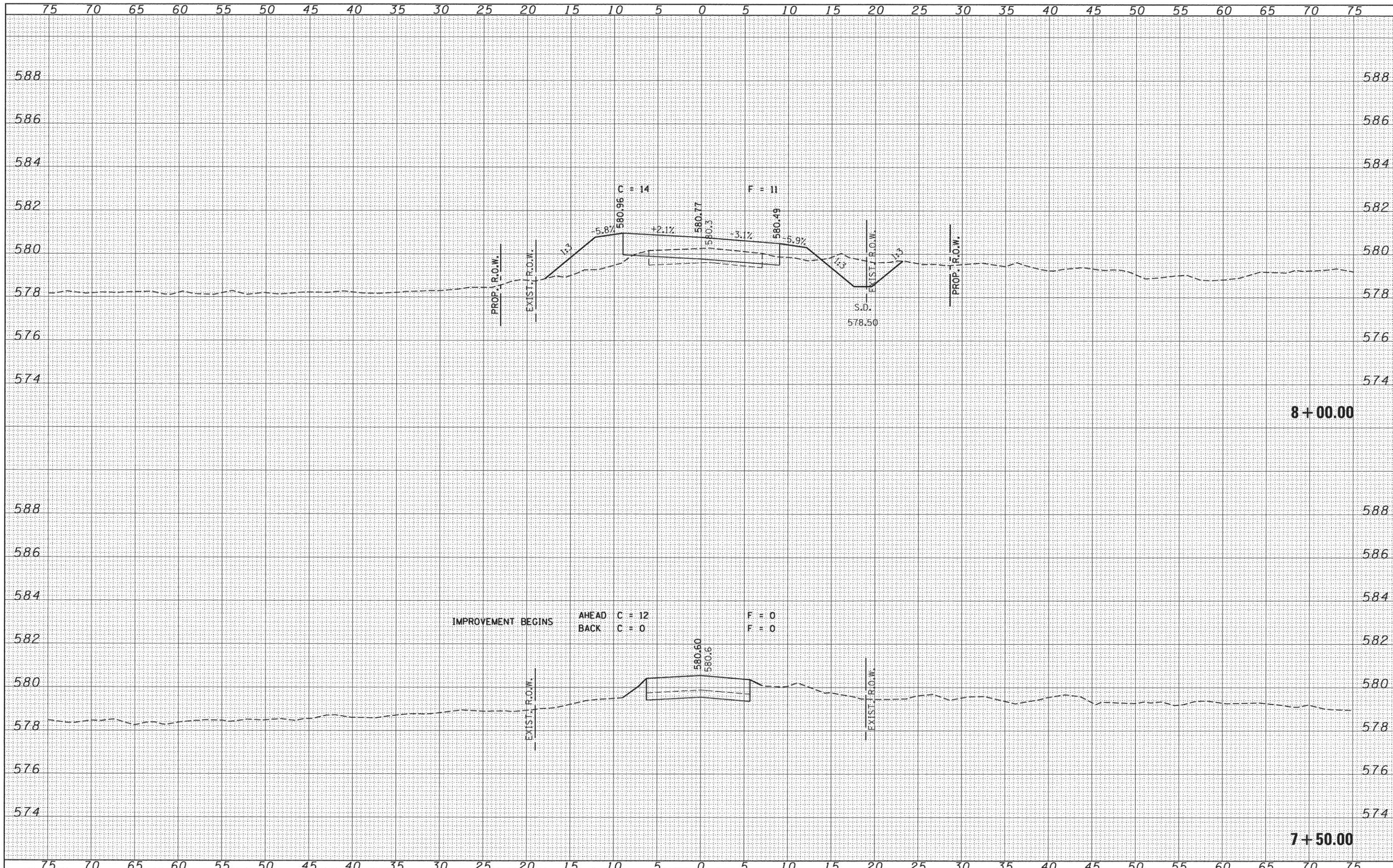
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 2 OF 16 SHEETS STA. 6+50.00 TO STA. 7+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	15
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(320)				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		



8 + 00.00

7 + 50.00

FILE NAME = 140182-sht-sxs.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3665 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184,000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

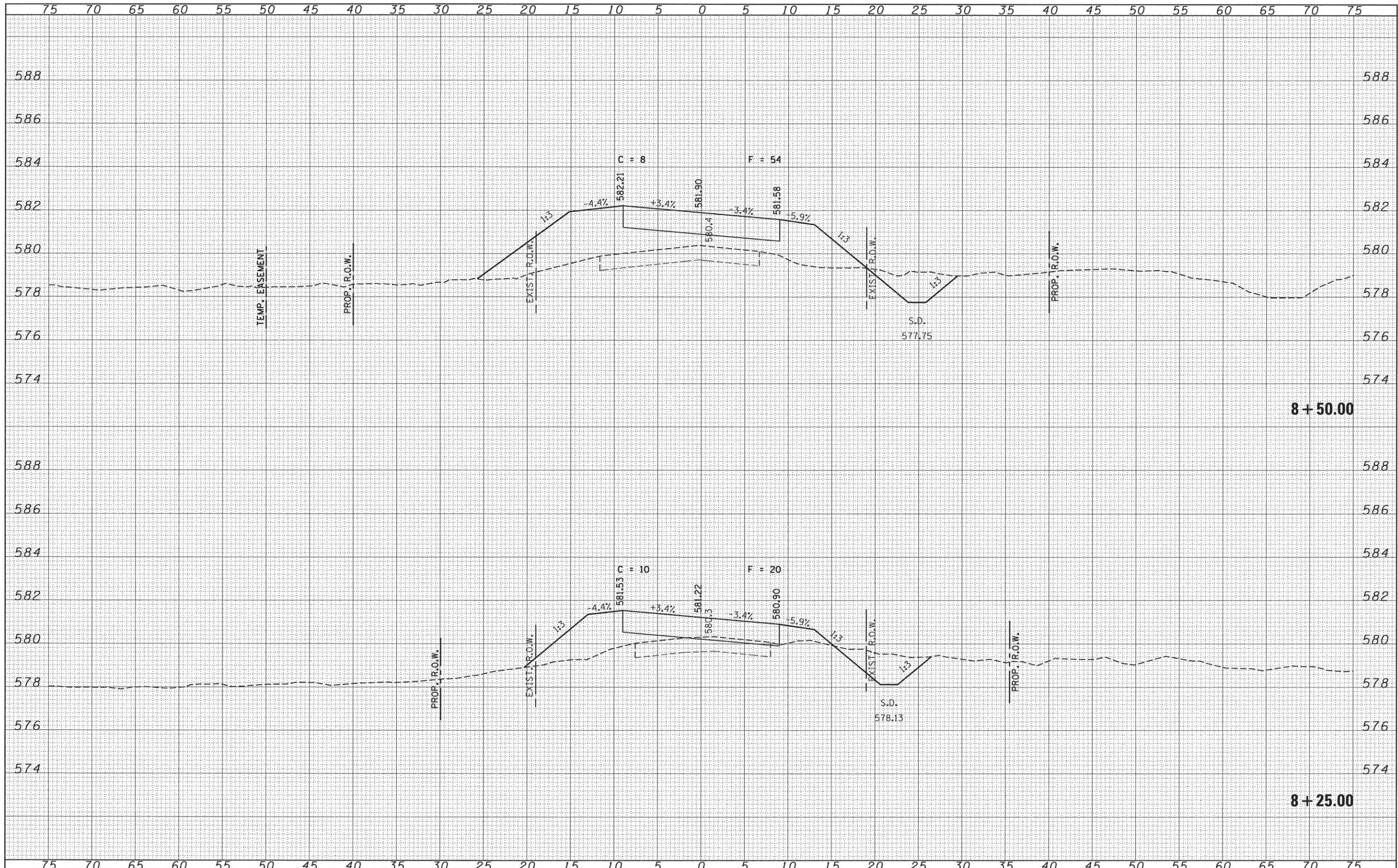
DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 3 OF 16 SHEETS
 STA. 7+50.00 TO STA. 8+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	16
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-018313201				



FINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	

FILE NAME = 140182-shit-sxs.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000859

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

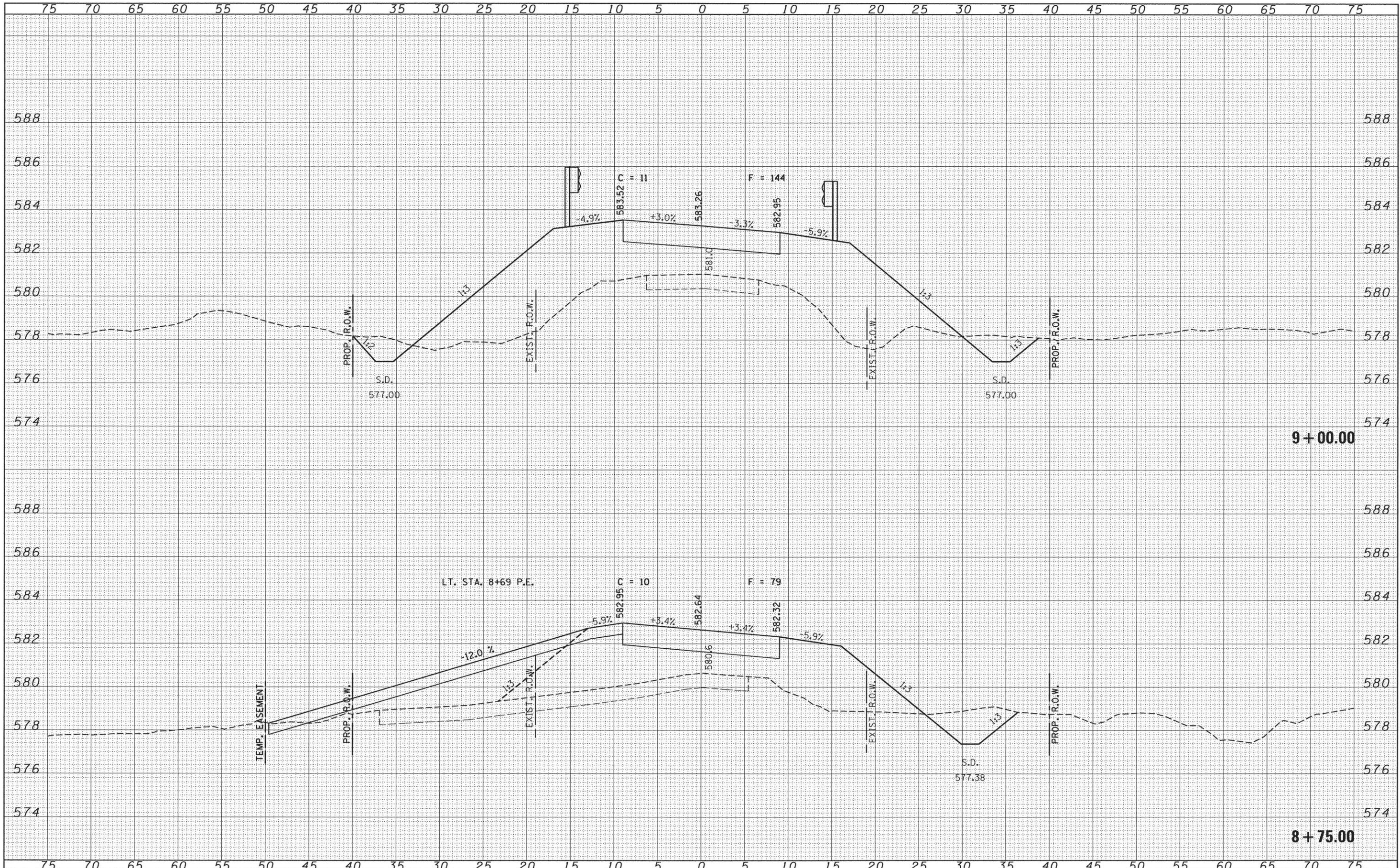
DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 4 OF 16 SHEETS
 STA. 8+25.00 TO STA. 8+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	17
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(320)				



FINAL SURVEY	DATE
DESIGNED	BY
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

ORIGINAL SURVEY	DATE
DESIGNED	BY
PLOTTED	
TEMPLATE	
AREAS	
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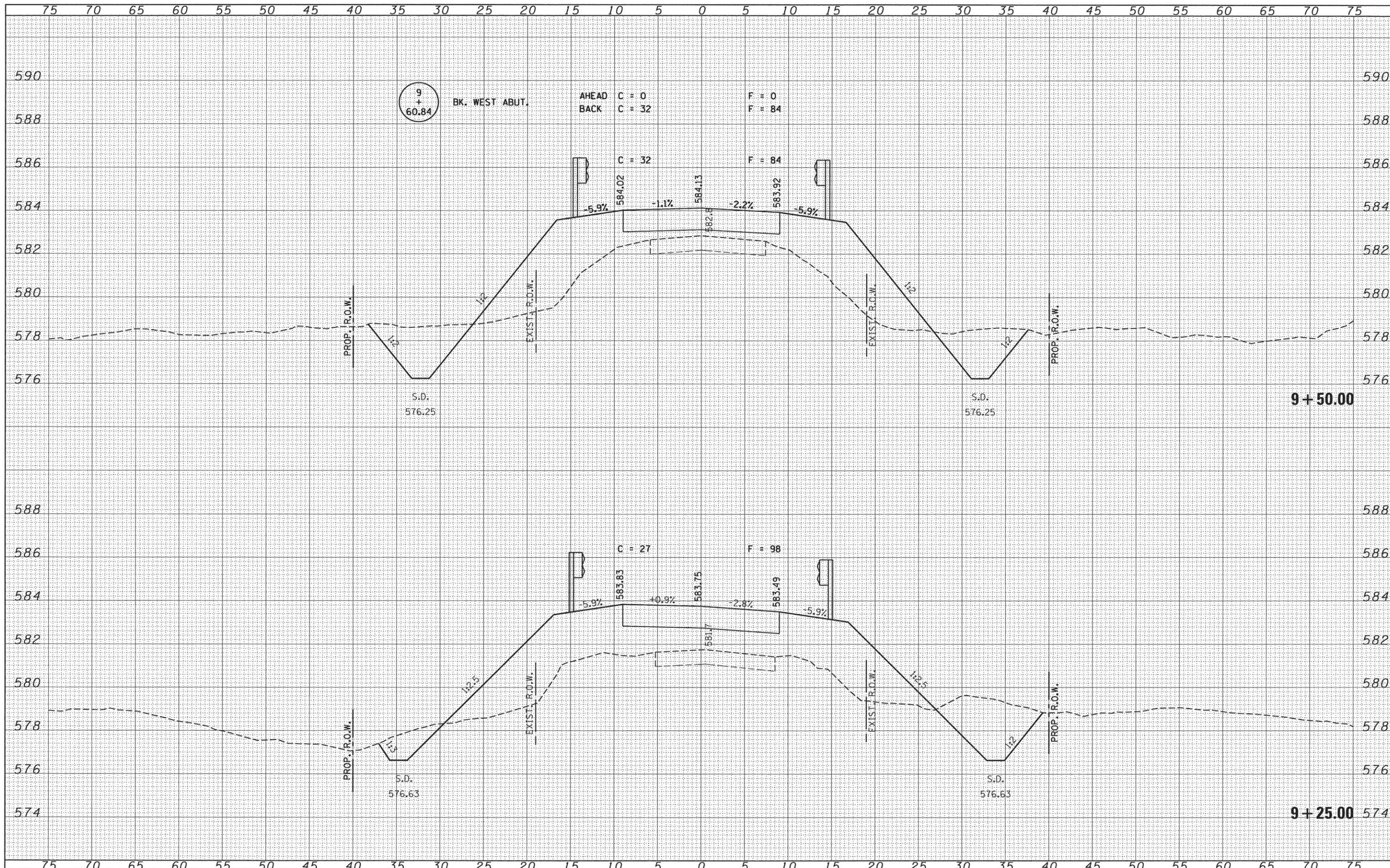
FILE NAME = 140182-sht-axs.dgn	USER NAME =
HAMPTON, LENZINI AND RENWICK, INC. 398 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	DESIGNED - J.W.F.
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00993	DRAWN - L.G.C.
PLOT SCALE =	CHECKED - S.W.M.
PLOT DATE = 3/30/2016	DATE - 09/21/15
	REVISED -
	REVISED -
	REVISED -

**STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS

SCALE: 5H:2V	SHEET NO. 5 OF 16 SHEETS	STA. 8+75.00 TO STA. 9+00.00
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TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	18
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BROS-01833201				



DATE	BY

DATE	BY

FILE NAME = 148182-sht-sxs.dgn	USER NAME =
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62733 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000929	DESIGNED - J.W.F. DRAWN - L.G.C. CHECKED - S.W.M. DATE - 09/21/15
PLOT SCALE =	REVISED -
PLOT DATE = 3/30/2016	REVISED -

DESIGNED - J.W.F.	REVISED -
DRAWN - L.G.C.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 09/21/15	REVISED -

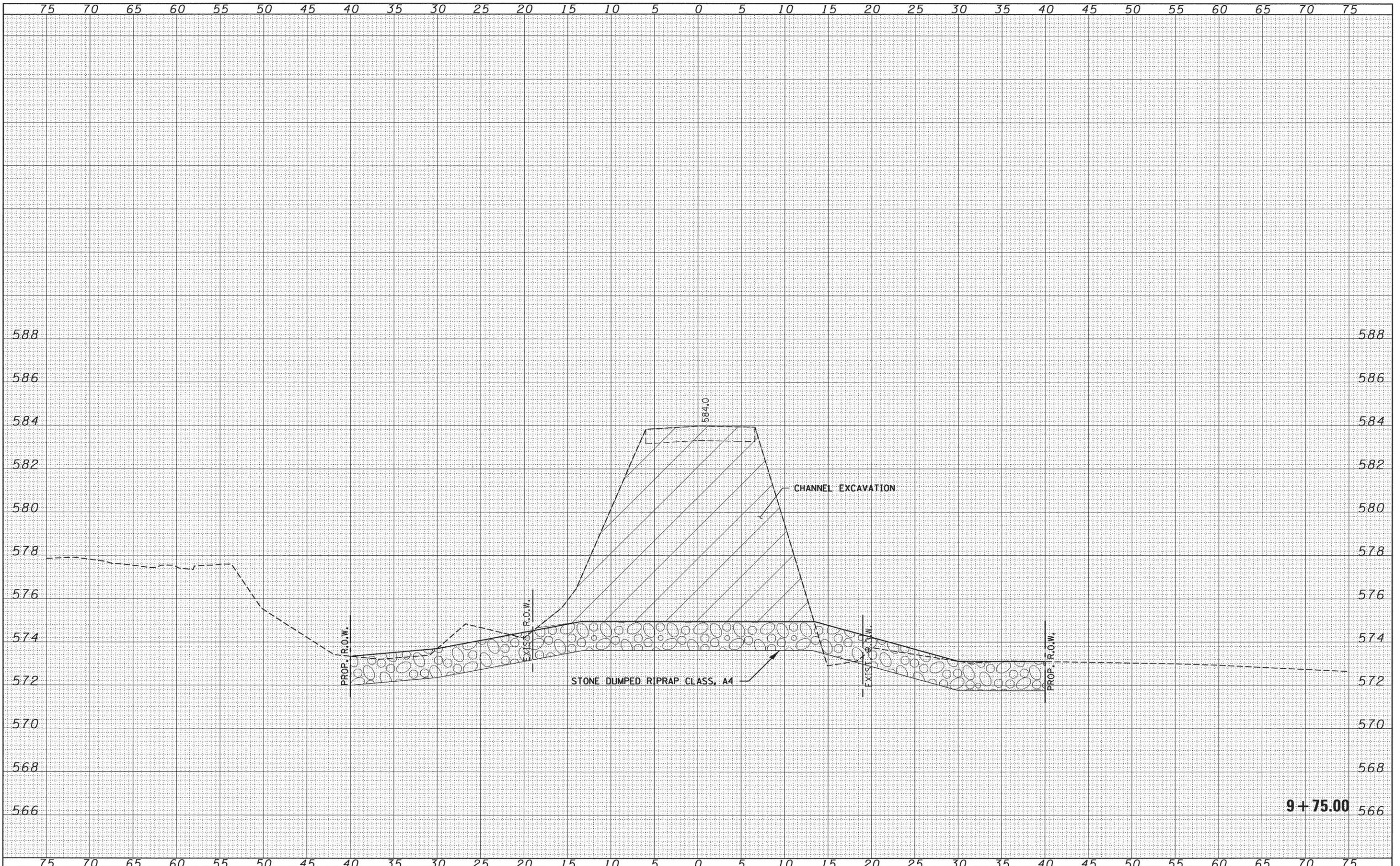
**STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS			
SCALE: 5H:2V	SHEET NO. 6 OF 16 SHEETS	STA. 9+25.00	TO STA. 9+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	19
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(320)				

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
AREAS CHECKED		

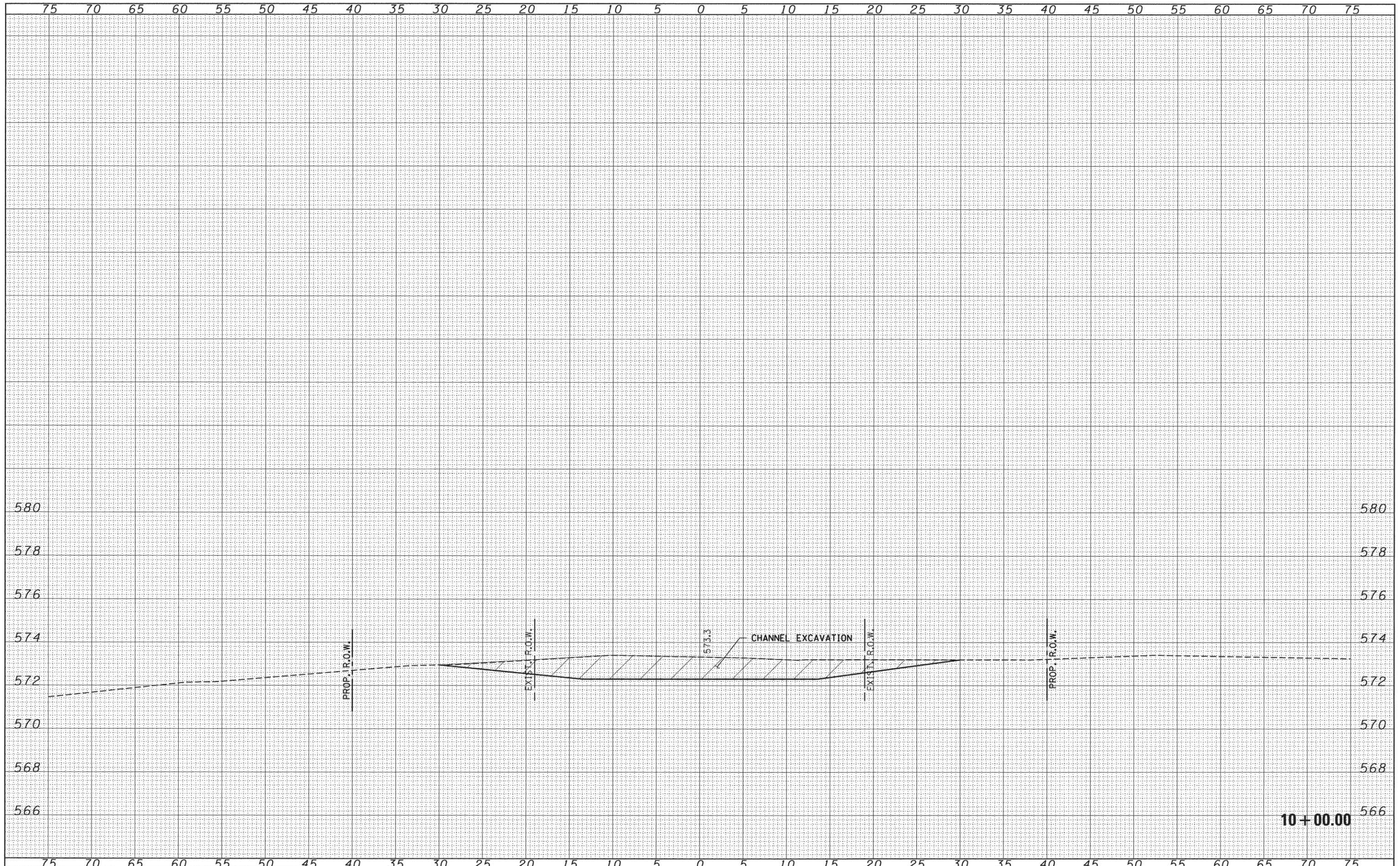
ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
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AREAS CHECKED		



FILE NAME = 140182-sh1-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 2005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM 15/PE/SE CORP. 184.000959	PLOT SCALE =	DRAWN - L.C.C.	REVISED -					315	09-04135-00-BR	VERMILION	29	20				
	PLOT DATE = 3/30/2016	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 7 OF 16 SHEETS	STA. 9+75.00	TO STA. 9+75.00	CATLIN ROAD DISTRICT CONTRACT NO. 91525					
												ILLINOIS FED. AID PROJECT BR05-0183(320)				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
AREA	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
PLOTTED	
AREA	
AREAS CHECKED	
NO.	



FILE NAME = 140182-sht-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62761
 ILLINOIS PROFESSIONAL DESIGN FIRM
 L3 / PE / SE CORP. 194.000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

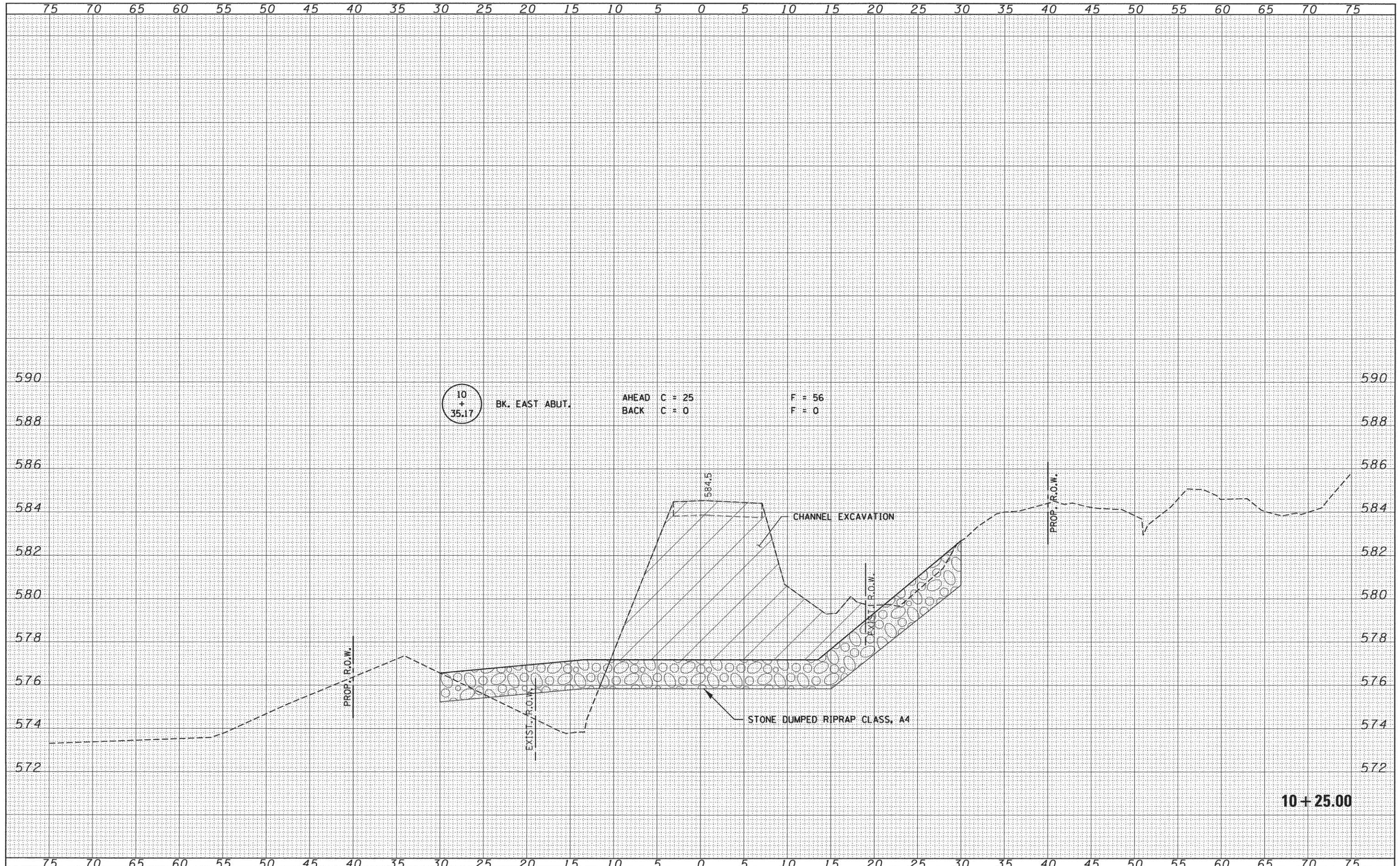
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 8 OF 16 SHEETS STA. 10+00.00 TO STA. 10+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	21
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(3201)				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
NO.	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



FILE NAME = 148182-sht-sxs.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3095 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62783
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000059

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

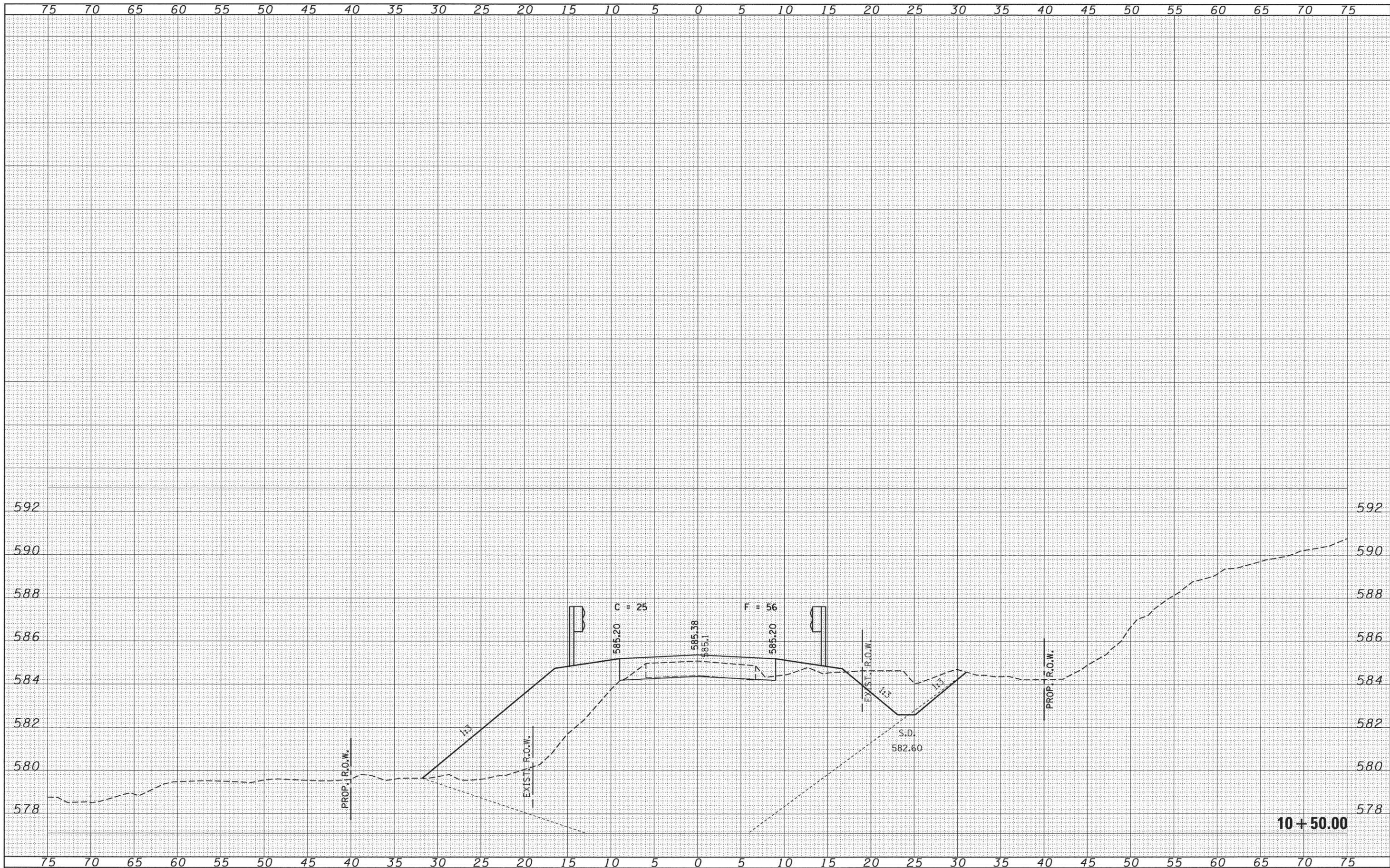
DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
 REVISED -
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STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 9 OF 16 SHEETS
 STA. 10+25.00 TO STA. 10+25.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	22
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
[ILLINOIS] FED. AID PROJECT BR05-0183(320)				



FINAL SURVEY	BY	DATE
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS		
AREAS CHECKED		

FILE NAME = 148182-sht-axs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 398 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000939

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
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STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

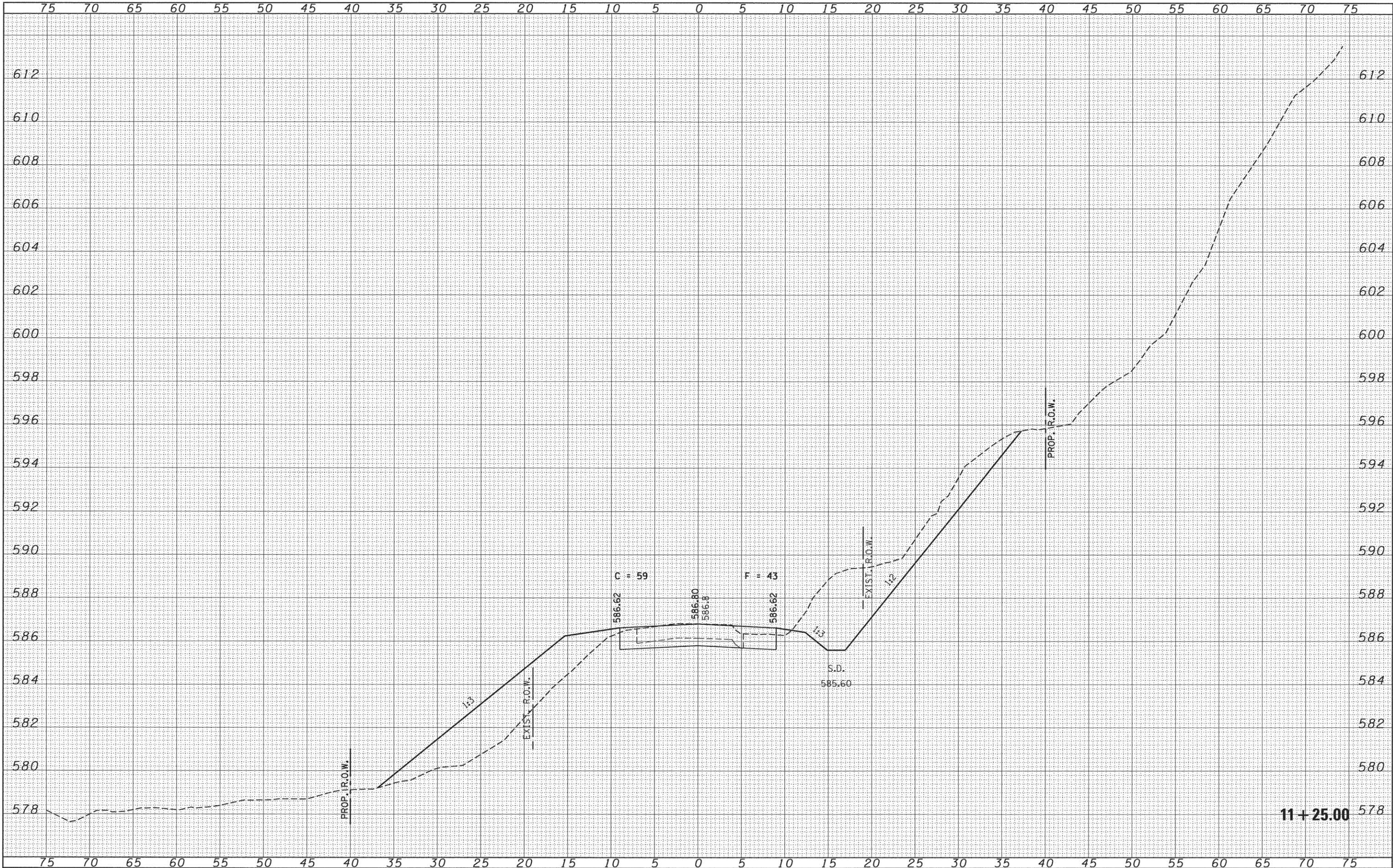
SCALE: 5H:2V
 SHEET NO. 10 OF 16 SHEETS
 STA. 10+50.00 TO STA. 10+50.00

STATION CROSS SECTIONS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	23
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-01831320				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME = 140182-sht-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 330 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 194.009859

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

REVISED -
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 REVISED -
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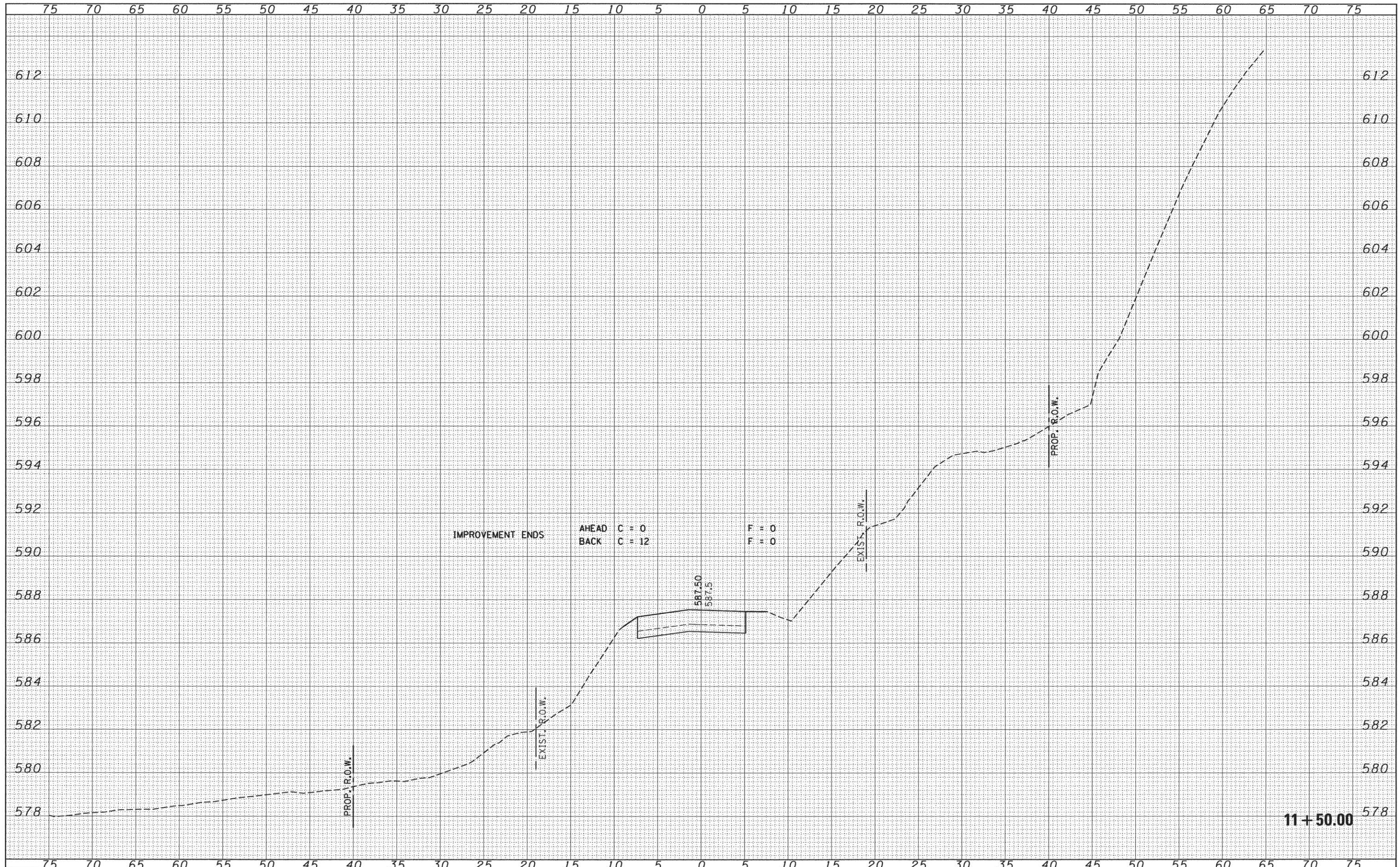
STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 13 OF 16 SHEETS
 STA. 11+25.00 TO STA. 11+25.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	26
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
ILLINOIS FED. AID PROJECT BR05-0183(320)				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

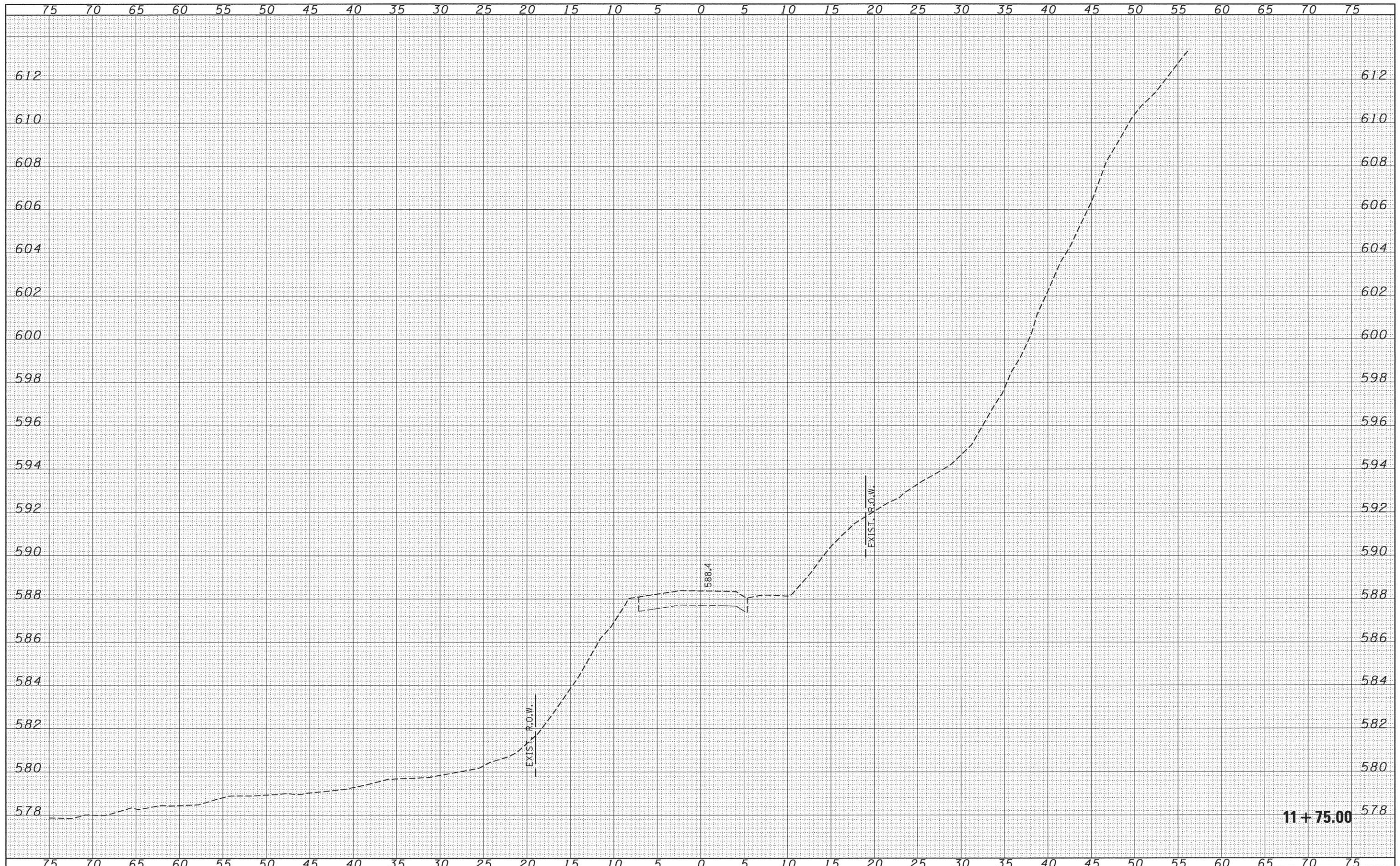


11 + 50.00

FILE NAME = 140182-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS			
HAMPTON, LENZINI AND RENWICK, INC. 388 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00959	PLLOT SCALE =	DRAWN - L.G.C.	REVISED -					TR	SECTION	COUNTY	TOTAL SHEETS
PLLOT DATE = 3/30/2016		CHECKED - S.W.M.	REVISED -	315	09-04135-00-BR	VERMILION	29	27			
		DATE - 09/21/15	REVISED -	CATLIN ROAD DISTRICT				CONTRACT NO. 91525			
				SCALE: 5h2V		SHEET NO. 14 OF 16 SHEETS		STA. 11+50.00 TO STA. 11+50.00			
[ILLINOIS] FED. AID PROJECT BR05-0183(320)											

FINAL SURVEY	SURVISED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVISED	DATE
NOTE BOOK NO.	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	



11+75.00

FILE NAME = 140182-sh1-sxs.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62783
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/30/2016

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 09/21/15

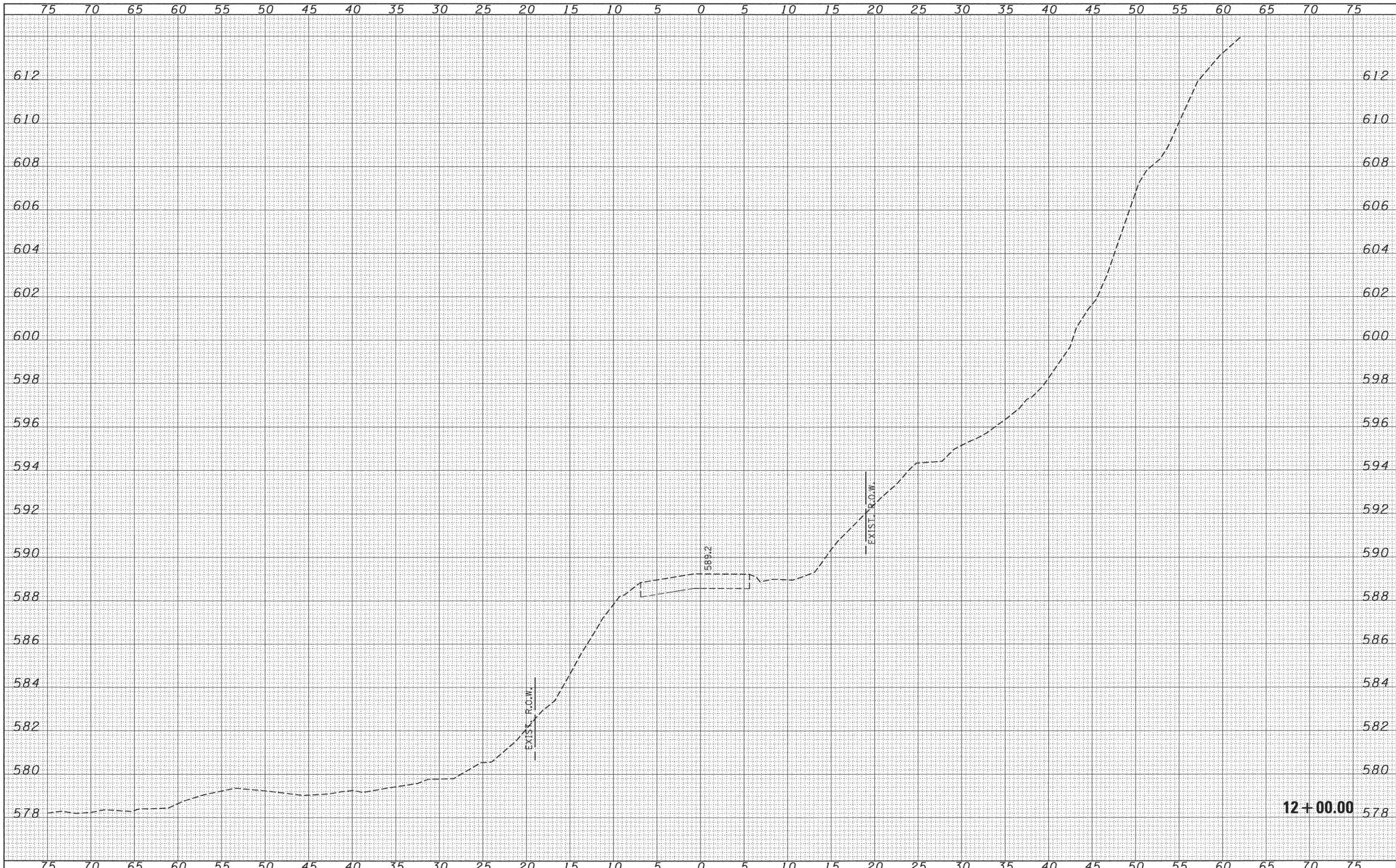
REVISED -
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 REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

SCALE: 5H:2V
 SHEET NO. 15 OF 16 SHEETS
 STA. 11+75.00 TO STA. 11+75.00

STATION CROSS SECTIONS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	09-04135-00-BR	VERMILION	29	28
CATLIN ROAD DISTRICT			CONTRACT NO. 91525	
[ILLINOIS] FED. AID PROJECT BR05-0183(320)				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS		
	CHECKED		

FILE NAME = 140182-sht-svs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM LS/P/E/SE CORP. 184.000959	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		315	09-04135-00-BR	VERMILION	29	29				
	PLOT DATE = 3/30/2016	CHECKED - S.W.M.	REVISED -		CATLIN ROAD DISTRICT				CONTRACT NO. 91525				
		DATE - 09/21/15	REVISED -		SCALE: 5H:2V				ILLINOIS FED. AID PROJECT BROS-01833201				
					SHEET NO. 16 OF 16 SHEETS				STA. 12+00.00 TO STA. 12+00.00				

12+00.00